James Terrell Singleton

Fullstack engineer and AI-driven product builder

Baltimore, MD / Washington, DC / Virginia
terrell.singleton@gmail.com
https://resume.terrellsingleton.com/
https://linkedin.com/in/terrell-singleton
https://github.com/tmanundercover

PROFILE

Open to relocation. I build fullstack products and AI-enabled workflows across fintech, defense, small-business, and creative technology, with an emphasis on resilient systems, thoughtful interfaces, and practical integration. Recent consulting spans durable AI execution systems, Firebase-backed business applications, CMS and commerce platforms, and automation for mission-driven organizations. Earlier work includes frontend subject matter expertise and React and Flutter banking applications at Assembled Financial, lending platforms and a Paycheck Protection Program prototype at Assembled Brands, and frontend and distributed systems engineering at Northrop Grumman, Cybercore Technologies, Raytheon, and L-3 Communications.

SKILLS

- JavaScript
- TypeScript
- React
- Angular
- Vite
- Storybook
- Material UI
- Node.js
- Kotlin
- Java
- C/C++
- Python
- PHP
- Dart
- Flutter
- Resend API
- Auth0
- Firebase Authentication
- AWS
- AWS Lambda
- SQS
- RDS
- GCP
- Firebase
- Firebase Hosting
- Firebase Functions
- Firestore
- PostgreSQL
- MySQL
- MongoDB

EXPERIENCE

Software Engineer & Automation Advisor

Addition, Inc. · 2026 - Present

Architects business applications and advises on automation, reporting, operational integrations, and staff enablement for Addition and organizations it serves.

• Architected and developed Time Allocation by Percentage, a React, TypeScript, and Firebase application supporting staff cost allocation and financial reporting across C3 and C4 entities.

• Engineered employee, manager, and finance-administrator workflows for biweekly allocation, 100% percentage validation, project and jurisdiction coding, approvals, corrections, and CSV reporting.

• Used OpenAI Codex during implementation and validation of the application's business rules, role-based workflows, and reporting behavior.

• Provides ongoing automation consulting and hands-on staff training for Zapier, DocuSign, operational integrations, and opportunities to streamline manual processes.

• Serves as a web and application development resource referred by Addition to client organizations, including the Dorothea Project.

React & WordPress Engineer

Dorothea Project · 2026 - Present

Builds and maintains public-interest publishing tools that connect WordPress presentation with React interfaces and staff-managed Google Sheets data.

• Engineered a React application embedded in a WordPress child theme to publish political candidates' questionnaire responses from Google Forms and Google Sheets data.

• Implemented spreadsheet-driven approval controls and candidate-image references so nontechnical staff can curate the responses visible to the public.

• Integrated and extensively restyled a WordPress events-calendar plugin through child-theme CSS3 while continuing content revisions and site enhancements.

• Used OpenAI Codex while developing and validating the React, WordPress, spreadsheet, and styling integrations.

- DynamoDB
- Sanity.io
- Shopify
- Shopify SDK
- WordPress
- Wix
- Google Forms Integrations
- Google Sheets integrations
- Wix Automations
- n8n
- OpenAI Codex
- Google Gemini
- Jest
- Docker
- Zapier
- DocuSign
- GIMP
- Chrome DevTools
- webpack
- Parcel
- CircleCI
- GitLab
- GitHub Actions
- Ruby
- Jenkins
- Ext JS
- Spring Boot
- jQuery
- HTML5
- CSS3
- Office 365
- Groovy
- Jasmine
- Grunt
- GWT
- npm
- jQuery Mobile
- Apache Solr
- CodeSandbox
- Figma

Frontend Engineer
Black Workers Together · 2026 - Present

Designed, developed, and deployed a campaign and community website with a path toward organizer-managed content.

• Designed, developed, and deployed a React, TypeScript, and Vite website on Firebase Hosting for campaign information, worker stories, meetings, surveys, and leadership opportunities.

• Managed stakeholder-driven revisions and releases with preview deployments, responsive design, structured SEO data, and social-sharing metadata.

• Develops a self-service administration experience so organizers can update site content without requiring developer changes.

• Used OpenAI Codex throughout frontend implementation, validation, and stakeholder-driven release iterations.

Shopify & React Engineer
Chef Jamie G · Feb 2024 - Present

Designed, styled, and developed the complete Chef Jamie G Shopify site, then extended it with a custom testimonial application hosted through MAAiN and served inside the storefront.

• Designed, styled, and developed the complete Shopify site for the culinary-services business.

• Delivers seasonal menu changes, service-content updates, and ongoing client-requested enhancements.

• Built a standalone React testimonials application when the client chose not to purchase a Shopify testimonial plugin.

• Hosts the testimonial application through MAAiN and serves it inside the Shopify site through a custom-styled iframe integration.

• Used OpenAI Codex while developing and refining the Shopify site and its custom testimonial application.

Automation Engineer
MTC Art Studios · May 2025 - Present

Implemented and maintains a Wix booking flow for student art interviews, including payment gating and Office 365 calendar sharing, while advising on ongoing process and website improvements.

• Implemented the Wix booking experience used for student art interviews.

• Connected payment gating to scheduling so payment happens before an interview can be booked.

• Set up Office 365 calendar sharing and continues to maintain the workflow as new requests arrive.

• Provides booking-process improvements and client-requested website and policy-content updates.

• Used OpenAI Codex during implementation and iteration of the booking and integration workflow.

AI Product Builder
White-label custom application generator · Dec 2024 - Present

Built workflow orchestration that generates and deploys websites and web applications, evolving an initial n8n workflow into a React and TypeScript system on GCP and Firebase with multimodal automation.

• Started with an n8n workflow that proved the end-to-end application-generation concept.

• Evolved the workflow into white-label React and TypeScript product experiences.

• Implemented event-based execution using GCP and Firebase services.

• Connected text, image, and video generation inside a larger deployment workflow.

• Delivered rapid application and website previews used for prospect mockups, client acquisition, direct outreach, and concept development.

• Used OpenAI Codex across architecture, implementation, testing, and iteration of the generation platform.

AI Model Evaluation Specialist

Outlier.ai, DataAnnotations & Handshake · Dec 2022 - Present

Designs evaluation protocols, prompts, and test scenarios for language models; authors technical reports and contributes detailed response evaluations to dataset creation.

• Developed structured test cases to assess language-model capabilities and limitations.

• Engineered prompts and natural-language scenarios to analyze model behavior in realistic use cases.

• Performed detailed quality assurance, including audio-based interaction testing and response analysis.

• Documented technical findings and contributed evaluated responses to AI training datasets.

Software Architect / Founder

The Handsomest Nerd, LLC · Sep 2022 - Present

Provides web development, software development, workflow automation, and AI automation services through The Handsomest Nerd. Builds and deploys React and Node.js applications for small businesses using Sanity CMS and GCP, including human-AI interfaces and multimodal generation workflows.

• Develops and deploys React websites and applications for small-business clients, with services showcased at thehandsomestnerd.com.

• Builds Node.js backends and structured-content workflows with Sanity CMS and GCP.

• Develops the Transformative Healing and Wellness and Houston realtor websites with React, TypeScript, Firebase Hosting, Firebase Functions, and the Resend API for contact-form email, using Sanity.io CMS for wellness content and custom CMS architecture for the realtor's featured property listings.

• Applies TypeScript, Firebase, Jest, Storybook, Material UI, and test-driven development across client work.

• Explores practical human-AI interfaces and multimodal content-generation workflows.

• Architects client software and editable CMS-backed sites for real estate, publishing, Shopify commerce, culinary services, technology firms, pool maintenance, financial literacy, and HVAC learning.

• Designed and developed the complete JamWorks247 Shopify site; its most notable custom feature is a Shopify SDK and GIMP workflow for recoloring single-color artwork used in product designs.

• Designed a versioned TypeScript agent runtime with durable PostgreSQL operation records, idempotency, cancellation, execution receipts, signed grants, resumable approvals, and isolated per-run environments.

• Integrated Prompt Library with the agent runtime through authenticated workspace preparation, frozen-source manifests, readiness diagnostics, explicit approvals, and retained execution results.

• Uses OpenAI Codex across 2024-present consulting and AI-system development for implementation, validation, and iterative delivery.

Fullstack Software Engineer

Assembled Financial · Jun 2021 - Sep 2022

Served as frontend subject matter expert for cryptocurrency banking web and mobile applications using React, Flutter, and Dart, with shared Kotlin and Node.js services on AWS, Auth0 authentication, and consistent accessibility across platforms.

• Built React web and Flutter and Dart mobile cryptocurrency banking experiences backed by shared Kotlin and Node.js services on AWS.

• Served as frontend subject matter expert, collaborating with Product and Design in a cross-functional team to translate wireframes into pixel-perfect interfaces.

• Optimized React state management using Context and the useReducer hook to organize shared state and application updates.

• Directly coached and mentored frontend engineers in performance optimization and UI testing.

• Worked on an extreme Agile team using pair programming and participating in retrospectives, sprint planning, and daily standups/Scrums.

• Used pair programming for a two-way skills exchange with a mobile developer, sharing React, database integration, and API expertise while learning Flutter and Dart.

• Integrated Auth0 authentication across mobile and web applications with single sign-on and OAuth 2.0 token-based access, alongside Prove identity verification, Plaid account data, and Marqeta banking operations.

• Implemented CORS policies for Node.js backend APIs supporting application integrations.

• Helped implement consistent accessibility across mobile and web banking experiences as the frontend subject matter expert.

• Worked across PostgreSQL-backed services, a Solana-based token, and Segment analytics, using GitLab for source control and CI/CD.

Fullstack Software Engineer

Assembled Brands · Dec 2019 - Jun 2021

Served as frontend subject matter expert for React lending applications used by hundreds of users, partnering with Product and Design on interface delivery, web performance, and accessibility, with Kotlin and Node.js services on AWS.

• Built and maintained React applications and Kotlin services on AWS for lending workflows.

• Worked on an extreme Agile team using pair programming and participating in retrospectives, sprint planning, and daily standups/Scrums.

• Served as frontend subject matter expert, collaborating with Product and Design in a cross-functional team to translate wireframes into pixel-perfect React interfaces.

• Optimized React state management using Context and the useReducer hook to organize shared state and application updates.

• Owned web-performance optimization for applications serving hundreds of users, profiling React interfaces with Chrome DevTools to identify and address performance issues.

• Helped implement accessibility improvements in React applications as the frontend subject matter expert.

• Implemented CORS policies for Node.js backend APIs supporting web application integrations.

• Administered application data across DynamoDB and PostgreSQL stores.

• Integrated QuickBooks, Shopify, and Google Workspace APIs into financial-data and operational workflows.

• Used webpack and Parcel across React applications, with CircleCI for application CI/CD.

• Built the administrative dashboard from the ground up with React, Context, useReducer, and Parcel, owning its implementation and using GitHub Actions for CI/CD.

• Worked within an event-driven AWS architecture using Amazon SQS for asynchronous messaging between services.

• Contributed to the public company website, editorial blog, lending application, and administrative dashboard.

• Helped create a Paycheck Protection Program (PPP) prototype that was handed off to another development team and became Assembled Financial's first product, preceding my later work on its cryptocurrency banking applications.

Software Engineer

Northrop Grumman · Jan 2018 - Dec 2019

Upgraded an Angular application, developed ngRx features and data-heavy interfaces, and contributed to the distributed Java and Spring API it consumed.

• Helped upgrade the application from Angular 4 to Angular 6 while continuing feature delivery.

• Developed ngRx features from JIRA tasking and UI and UX mockups supplied by an external design team.

• Built table-intensive views with complex filtering, sorting, and conditional interface behavior.

• Contributed to the distributed Java and Spring API consumed by the frontend.

Principal Engineer

Cybercore Technologies · Dec 2015 - Dec 2017

Owned application architecture and technology selection as a principal engineer, building a React form and alerting application with existing Spring and Java APIs, modernizing an Ext JS interface with Angular and Bootstrap, and implementing accessibility. A dedicated team maintained the database platforms.

• Owned application architecture and development, selecting application technologies while a dedicated database team managed database platforms and maintenance.

• Architected a React form that changed future fields from prior input, stored submissions in MySQL, and generated administrator alerts.

• Integrated the React application with an existing Spring and Java API in an Agile principal-engineering team.

• Reengineered an Ext JS interface with Angular and Bootstrap across Scala, Java, Hibernate, and MongoDB services.

• Built faceted-search prototypes with jQuery Mobile backed by Apache Solr search APIs, and supported Tomcat deployment through Jenkins.

• Implemented accessibility across React, Angular, and search-interface work as part of frontend engineering responsibilities.

Principal Engineer

Cybercore Technologies · Jan 2014 - Jan 2015

Owned production and prototype server-status applications and technology selection as a principal engineer, including an Angular UI that visualized results from hundreds of Ruby application tests. Integrated with Java and Spring services and database platforms maintained by a dedicated database team.

• Owned application architecture and development, selecting application technologies while a dedicated database team managed database platforms and maintenance.

• Supported two production interfaces, two prototype interfaces, and one legacy interface.

• Built prototypes with AngularJS while maintaining Ext JS and early Angular applications.

• Exposed results from hundreds of Ruby application tests in an Angular UI, giving developers a visual way to identify failing tests during development.

• Created Highcharts visualizations and ng-grid tables for server details and test results.

• Integrated the interfaces with J2EE and Spring endpoints deployed to Tomcat.

• Participated in sprint planning and daily standups/Scrums as part of the Agile application-test visualization and server-status UI team.

• Implemented accessibility across production, prototype, and legacy server-status interfaces.

Frontend Software Engineer

SoftTech Solutions · Aug 2012 - Dec 2013

Built and modernized frontend interfaces for Java/JSP applications, implementing interactive jQuery experiences, Highcharts visualizations, custom graphics, and Jasmine testing. Championed JavaScript frontend practices through brown-bag demonstrations and applied automated testing, build automation, and dependency management to newer frontend work.

• Consumed Spring Boot, J2EE, and Groovy APIs with jQuery, HTML5, CSS3, and LESS to unify data from different sources.

• Built JSP views and Highcharts visualizations backed by MongoDB and a Java data layer using Hibernate.

• Implemented jQuery interfaces and Jasmine tests for application JavaScript, working with Maven and Tomcat in the delivery workflow.

• Championed JavaScript frontend practices through practical brown-bag presentations and working demonstrations of jQuery, Jasmine, Grunt, and npm, covering interactive interfaces, automated testing, build automation, and dependency management.

• Applied Grunt-based task automation and npm dependency management to newer frontend work alongside continued development of existing JSP interfaces.

• Created custom vector graphics in Inkscape and refined them in Adobe Illustrator.

Software Engineer

Raytheon Company · Oct 2007 - Jul 2012

Developed data-retrieval protocols for a distributed C++, Python, and MySQL system, alongside a separate GWT maintenance and sustainment initiative. Later maintained an internal social networking platform built on Elgg using PHP, JavaScript, MySQL, and jQuery, including accessibility work.

• Developed data-retrieval protocols and maintained a distributed C++, Python, and MySQL system in an Agile team with sprint planning and daily standups/Scrums.

• Implemented log aggregation with Apache Pig.

• Spearheaded a separate Google Web Toolkit (GWT) maintenance and sustainment application alongside the primary distributed-system work, owning the frontend and bringing in a backend developer who provided middleware for server-side process execution and data delivery to the GWT interface.

• Maintained an internal social networking platform built on Elgg and developed custom plugins with PHP, JavaScript, and MySQL.

• Provided direct production support to users of the social-networking platform.

• Applied accessibility practices to the internal social networking platform and custom Elgg plugins.

Software Engineer

L-3 Communications · Nov 2004 - Oct 2007

Developed production PHP, Java, and JavaScript applications, created a Java SOAP API for CSV and XML data, and supported documentation, installations, training, and system demonstrations.

• Developed a production application with PHP, HTML, JavaScript, MySQL, and Tomcat across spiral and waterfall delivery cycles.

• Created a Java SOAP API that served ingested data in CSV and XML formats.

• Documented an inherited system that arrived without sufficient technical documentation.

• Supported worldwide surveys and installations, system upgrades, operator training, troubleshooting, demonstrations, and briefings.

PROJECTS

Houston Realtor Website — A React and TypeScript website for a Houston-based realtor, featuring property listings and custom CMS architecture built for this client. · View project

Time Allocation by Percentage — A React and TypeScript application on Firebase that connects employee, manager, and finance workflows for biweekly staff-cost allocation and reporting across C3 and C4 entities. · View project

Dorothea Project questionnaire publishing — A React publishing interface styled with CSS3 and embedded in a WordPress child theme, bringing Google Forms submissions and Google Sheets approval workflows into public political-candidate questionnaire results. · View project

Black Workers Together website — A responsive React and TypeScript campaign website built with Vite and deployed through Firebase Hosting, connecting visitors to worker stories, meetings, surveys, and leadership opportunities. · View project

MTC interview booking automation — A Wix booking experience for student art interviews, with payment required before booking and calendar sharing inside Office 365. · View project

White-label application generator — An n8n workflow evolved into a React and TypeScript application on GCP and Firebase that turns user input into deployed websites and applications, with video, image, and text generation.

Transformative Healing and Wellness website — Two versions of a React and TypeScript website evolved with the client, from a physical wellness facility offering bookings for five services into a platform for a self-published author. · View project

AI Code Generation — MAAiN brings LLMs, prompt engineering, and UX design together for AI code generation, backed by a TypeScript platform for agent runtimes.

Chef Jamie G Shopify site & testimonials application — A complete, custom-styled Shopify site for a culinary-services business, extended with a React testimonials application embedded in the storefront through an iframe. · View project

JamWorks247 Shopify site & merchandise-color customization — A complete Shopify commerce site designed and developed for JamWorks247, including a custom merchandise-color workflow that combines the Shopify SDK with GIMP to recolor single-color artwork for product designs. · View project

Bartender portfolio and drink menu — A React and TypeScript web portfolio using Sanity.io for content, combining a professional profile with an interactive, browsable 42-item drink menu.

Bartender Flash Cards — A Flutter flash-card experience using Sanity.io, Firebase, and Material UI to help users practice bartender knowledge in the browser. · View project

Assembled Brands website and blog — Public company and editorial experiences built with React, AWS, WordPress, and Sanity.io, delivered alongside the lending application, administrative dashboard, and financial-data extraction tools. · Visit website · Visit blog

The Handsomest Nerd — The business website for The Handsomest Nerd, showcasing web development, software development, workflow automation, and AI automation services. · View project

EDUCATION

B.S. in Computer Engineering, University of Maryland, Baltimore County