

Jack Freiermuth

Full Stack Engineer | Agentic Systems & AI-Assisted Development

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SUMMARY

Full stack engineer with 12+ years shipping production web applications in JavaScript, TypeScript, React, and Node, with an agentic coding operating model at the center of how I work. I build the tooling rather than just using it: custom MCP servers in Node and Python, multi-agent pipelines that carry a ticket to a reviewed PR, and human-in-the-loop approval gates that decide when an agent hands control back to a person. Comfortable with loosely defined problems, fast prototyping, and cutting what does not survive contact with real use.

EXPERIENCE

Senior Full Stack Engineer | *Tensure Consulting*

Mar 2023 - Aug 2026

Applied AI and Agentic Tooling

- Built an agent pipeline that takes a Jira ticket to a draft PR in one command. It gathers context from Jira, Slack, and Confluence, builds UI from Figma designs, writes tests, and runs automated code review and security review, stopping for human approval at each gate.
- Routed each pipeline step to the cheapest model that could handle it, so the expensive models only ran at the stages where they changed the output.
- Wrote custom MCP servers in Node.js. One automates GitHub Desktop, which ships no API, by reading state from its local files and driving the UI from live window geometry.
- Built a library of 28 reusable agent skills covering ticket research, UI scaffolding with visual diffing against Figma mockups, test generation, PR review, and Jira syncing. Packaged it as an installable toolkit with documentation and onboarding, working across engineering, design, and product.
- Worked from loosely defined problems to running prototypes, iterating on the pipeline design in production use and retiring the stages that did not earn their cost.

Topstep (fintech, funded-trader platform)

- Built Training Camp, the onboarding flow for Topstep's trading education product: multi-slide tutorials, lesson navigation, per-chapter video, and completion tracking. Worked from design mockups with one other engineer and shipped on time.
- Shipped public trader profiles end to end in Next.js. Trading styles, activity calendars, payout history, and career timelines, with caching tied to server-side invalidation.
- Built the username system, full stack. Schema and reserved-name list, REST endpoints, third-party moderation, live availability checks, and the client-side validation states.
- Built the risk management settings UI (risk brackets, position size limits) and animated achievement cards traders could share.
- Fixed a run of account lifecycle bugs on a platform serving 600,000+ traders: statuses that missed loss-limit breaches, a hole that let closed accounts be reopened, and double-counted reset credits. Backfilled thousands of closure records stuck in a bad state.
- Added feature telemetry to a public API and rolled out Heap analytics. Took production support rotations covering auth failures, an account-creation latency incident, and customer escalations.

Mailchimp / Intuit (email marketing SaaS)

- Set the standards for email translation across Mailchimp's React, Dojo, and PHP surfaces, and built the React hooks and locale-aware date formatting the translation workflows ran on.
- Moved legacy cron jobs onto Google Cloud Tasks and migrated self-hosted Airflow DAGs to Google Composer.
- Mentored junior developers on an internal React project to own tickets end to end and debug on their own.

Senior Web Developer / Tech Lead | *UnityWorks, automotive digital marketing*

Apr 2015 - Mar 2023

- Led a 4-person offshore development team and advised business owners and PMs on scoping, timelines, and delivery status.

- Built personalized ad landing pages for auto dealerships. Campaign data arrived by SFTP, imported automatically into schemas we designed for it, then each page read URL parameters to pull the right customer and dealership records and generate a custom coupon.
- Hand-coded email and SMS campaign blasts to design specifications for dealership ad campaigns, building templates that had to render correctly across email clients and carriers.
- Integrated Google Analytics, DoubleClick, and Facebook APIs for automated data ingestion, and implemented single sign-on with Facebook and Google OAuth.

Back-end Web Developer | Fjorge

Nov 2014 - Apr 2015

- Led client projects with teams of up to 3; built PHP back ends and custom plugins and themes for WordPress, Drupal, and e-commerce sites.
- Mobile web development end to end in an MVC PHP/JavaScript/MySQL stack; built PHPUnit test suites and base server-side API infrastructure.

Software Engineer | Aladtec Inc.

May 2013 - Jul 2014

- Mobile web development from planning through production in an MVC PHP/JavaScript/MySQL stack.
- Built PHPUnit test suites ready for automation and developed base server-side API infrastructure and custom payroll programs.

PROJECTS

Personal AI Automation Stack

- Built a self-hosted agentic platform with 25+ custom MCP servers in Python and TypeScript wrapping REST and native-app APIs.
- Instrumented every agent call with Langfuse for cost and failure analysis, then used that telemetry to retire a retrieval layer that was returning confident wrong answers rather than keep it because it demoed well.
- Orchestrated n8n workflows for scheduled ingestion and classification across the stack.

SKILLS

Frontend

TypeScript/JavaScript, React, Next.js, Redux, AngularJS, Dojo, jQuery, HTML, CSS, Storybook, Vite, Figma, REST API integration, front-end performance, accessibility, usability, unit and integration tests for UI components

AI-Assisted Automation Stack

Claude Code, GitHub Copilot, MCP (Model Context Protocol) server development, agentic pipelines, prompt design with guardrails and human-in-the-loop approval gates, AI-driven UI scaffolding, test generation, refactoring assistance, and documentation to improve developer productivity and code quality

Backend, Data & Cloud

Node.js, PHP, SQL (PostgreSQL, MySQL), Unix Shell, Google Cloud (BigQuery, Cloud Tasks, Cloud Composer, Cloud Scheduler, Cloud SQL, Spanner), Terraform

Practices

Developer experience tooling and documentation, rapid prototyping and experimentation, working from ambiguous requirements, observability (Splunk, Rundeck, Heap), production support rotation, delivery in regulated domains (fintech, global data privacy), mentoring

EDUCATION

University of Wisconsin-River Falls

May 2014

B.S. Computer Science & Information Systems
B.S. Mathematics