

Jake Finch *Senior Software Engineer*

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

TECHNICAL SKILLS

- **Frontend:** React, Next.js, TypeScript, JavaScript, HTML5/CSS3, Tailwind CSS, Storybook
- **Backend:** Node.js, Express.js, Golang, GraphQL, REST APIs, AWS Bedrock, PostgreSQL
- **AI:** Agentic SDLC, MCP Tooling, Ralph loops, Claude skills/plugins, Evals
- **Cloud, Tools & DevOps:** GitHub, Docker, AWS, Cypress, Jest, CI/CD pipelines

PROFESSIONAL EXPERIENCE

Rocket Companies (Rocket Homes & Rocket Mortgage)

Senior Software Engineer | Jun 2025 – Present

- Serve as a core contributor to "[Rocket Flow](#)," an internal agentic AI framework leveraging Model Context Protocol (MCP) and AWS Bedrock to reduce feature delivery timelines from months to weeks.
- Selected to lead the enterprise modernization of Rocket Mortgage Servicing, migrating a legacy Angular stack to a new Next.js domain. Established critical site middleware, agentic development workflows, and foundational testing strategies to deliver targeted recapture pages.
- Built a resilient backend synchronization system managing dual sources of truth during the Rocket Servicing and Mr. Cooper merger, scaling infrastructure to support 17% of the US mortgage market.
Technologies Used: Nextjs, React, ClaudeCode,, Nodejs, Express, Nest, GraphQL, Redis, Elasticsearch

Software Engineer | May 2022 – Jun 2025

- Spearheaded the Next.js migration for Rocket Homes, collaborating with Staff Engineers to establish the initial front-end architecture, state management, and routing strategies.
- Architected a frictionless "stub account" onboarding flow using token-based email authentication and reCAPTCHA. This migration significantly increased user acquisition by allowing immediate access to core tools (saved searches, favorite properties) prior to full account creation.
- Owned the architecture and availability of high-traffic lead generation funnels—the company's primary revenue driver—ensuring data integrity for critical systems.
- Managed a large-scale backend modernization initiative, porting distributed business logic into a unified "commons" repository and upgrading legacy systems to ESM (ESM) and latest LTS versions.
- Drove standardization and developer experience (DX) by implementing an internal Design System via Storybook, migrating automated testing to Cypress with per-page A11y checks, and maintaining versioning and CI/CD pipelines.

Knock

Software Engineer | August 2021 – March 2022

- Developed cross-platform mobile and web applications utilizing React and React Native.
- Implemented GraphQL APIs and Redux state management to handle complex data flows.
- Optimized application performance and implemented automated testing alongside intuitive UI design.
Technologies Used: Nextjs, React, Redux, React Native, GraphQL, MySQL, Fastify, Microservice Pattern

Redwood Credit Union

Front End Developer | March 2019 – August 2021

- Built internal banking applications serving 300,000+ credit union members utilizing React and Redux.
- Collaborated with backend teams to integrate RESTful APIs while ensuring strict compliance with banking security standards.

Technologies Used: React, Redux, Nodejs, Express, Mulesoft

EDUCATION & ACHIEVEMENTS

Education

- UC Davis Continuing and Professional Education, Certificate, Software Engineering, Sacramento
- California State University, Fullerton, Bachelor of Arts, Advertising, Fullerton

Awards & Nominations

- Nomination: 2024 Rock Honors Nominee for 'Best execution in a product or technology role'
- Award: Two-time "Best Overall" Hackathon Winner at Rocket (Built an AI Home Design POC & a Home Search by School Rating tool).
- Award: Innovation Award, Visa, 02/2020: For design and development of internal card management system.