

# WILLIAM STROTHE

Software Engineer (TypeScript) | Frontend Architecture + Full-Stack Project Experience  
(React/Node)  
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## Professional Summary

Senior-leaning TypeScript engineer with strong ownership of production web platforms, specializing in scalable front-end architecture, state management, and reliability. At Rocket Mortgage Capital Markets, I lead modernization efforts (Angular upgrades, Signals adoption, zoneless change detection), improve developer workflows through shared patterns and documentation, and mentor engineers through code reviews and architecture guidance. I also bring hands-on full-stack project experience (React, Node/Express, REST APIs, Nx monorepos, SQL/NoSQL) and am continuing to deepen backend/DevOps foundations through the MIT xPro Full Stack program (GraphQL, Docker, AWS CI/CD, security, automated testing).

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## Technical Skills

- **Languages:** TypeScript, JavaScript
  - **Frontend:** Angular, RxJS, NgRx, HTML/CSS/SCSS; React (project experience)
  - **Backend & APIs:** RESTful API design; Node.js/Express; Firebase Authentication, Firestore; MongoDB/Mongoose (project experience)
  - **Databases:** Firestore; SQL/MySQL
  - **Architecture & Tooling:** Nx monorepos, pnpm, Git, GitHub, CI/CD fundamentals; Cloudflare Pages (project experience)
  - **Testing:** Jest (production + projects), Playwright (project experience)
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## Professional Experience

### Information Developer – Capital Markets (Engineering)

Rocket Mortgage – Phoenix, AZ | Dec 2022 – Present

- Own end-to-end delivery for internal platforms used by Origination and Servicing teams: requirements → implementation → rollout → support and iteration.
- Lead modernization initiatives from Angular v16 → v19, including Signals adoption and performance-focused architecture patterns (zoneless change detection).
- Built a Cloud Run audit service to track Firestore data changes and improve transparency/compliance reporting.

- Drive leverage through reusable UI/state patterns, shared abstractions, and developer documentation/templates that improve consistency and onboarding.
  - Mentor engineers through code reviews, pairing, and architecture guidance; communicate technical tradeoffs clearly to technical and non-technical partners.
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## **Senior SOS Product Specialist – Capital Markets**

Rocket Mortgage – Phoenix, AZ | Jan 2021 – Dec 24, 2022

- Resolved high-severity production issues through investigation and root-cause analysis; coordinated fixes across teams and communicated outcomes to stakeholders.
  - Created internal guidance and repeatable processes that improved operational consistency and reduced repeat support inquiries.
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## **Projects**

### **Nx Portfolio Monorepo – Nx, Typescript, Angular(primary), React, Node.js, Firebase, Jest, Playwright, Github Actions, Cloudflare Pages**

- Built an Nx monorepo with multiple applications and shared libraries to mirror enterprise patterns (apps/libs separation, reusable libraries).
  - Implemented shared design tokens intended to be reusable across frameworks within the workspace.
  - Configured automated CI with quality gates and branch-based deployments (main → production, beta → pre-production, feature branches → preview).
  - Designed an SSO-style auth flow for independently deployed apps using Firebase Authentication and short-lived token handoff.
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### **React Photo Portfolio Website – React17, Javascript, Jest, React Testing, Github Pages**

- Developed a responsive single-page photo portfolio with dynamic category filtering (Commercial, Portraits, Food, Landscape) and modal image viewer.
  - Implemented a contact form with real-time client-side validation (including regex email validation) and conditional rendering between gallery and contact views.
  - Built a component-based UI with reusable components and state management via React Hooks (useState) for navigation, modal behavior, and validation.
  - Added unit tests with Jest + React Testing Library (including snapshot tests) and configured deployment to GitHub Pages.
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## Employee Tracker (SQL CLI) – Node.js, Express, MySQL, Inquirer, dotenv

- Built a command-line application to view, create, and update employee data using a relational database.
  - Implemented interactive workflows via Inquirer prompts and structured output to support admin-style operations.
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## NoSQL Social Network API – Node.js, Express, MongoDB/Mongoose

- Built a REST API for a social network where users can share thoughts, react to others' thoughts, and manage a friends list.
  - Structured code into controllers/models/routes to keep endpoints maintainable and easy to extend.
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## Education

- **MIT xPro** — Full Stack Development with MERN (In Progress, August 18<sup>th</sup> completion): Express.js, GraphQL, serverless architecture, Docker, CI/CD on AWS, DevOps/security fundamentals (OAuth2/Okta), automated testing.
- **Chegg Skills** — Applying AI in Web Design Certificate (November 2024).
- **Michigan State University** — Full-Stack Web Development Bootcamp (React/MERN foundations; project-based, July 2022).
- **SAFE Mortgage Origination Certificate** (November 2020).