Herman Xie

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GitHub Profile | LinkedIn Profile | Personal Site

SKILLS

Languages & Frameworks: React, Angular, JavaScript, TypeScript, Node.js, Express, Next.js, Ruby on Rails, Redux, RxJS
Databases & Tools: PostgreSQL, MongoDB, GraphQL, NestJS, AWS (S3, IAM), Jest, Webpack, Git, TDD, Agile/Scrum

EXPERIENCE

Independent Software Development & Upskilling Dec 2024 – Present

• Dedicated a structured period to independent study, deepening expertise in core backend architectures and frontend modernizations.

• Practiced clean code methodologies and complex algorithm optimization.

Fidelity Investments May 2021 – Dec 2024 Software Engineer Boston, MA

• Collaborated to deliver full-stack enterprise financial applications under strict Agile methodologies.

• Engineered backend systems leveraging Apollo, NestJS, and Node.js for RESTful and GraphQL API architectures. • Developed highly interactive frontends using Angular, React, and TypeScript, maximizing user engagement and responsive system behavior.

• Implemented custom Angular directives utilizing host listener events to safely intercept keystrokes, handle custom formatting, and sanitize user inputs.

• Maintained rigorous code quality by writing comprehensive test suites using Jest, consistently maintaining 100% line, branch, and callback coverage.

• Successfully migrated and modernized a legacy retirement sandbox application over a 3-month timeline, increasing cross-application user migration by >21%.

PROJECTS

Job Application Tracker - Independent (JavaScript, React, Node.js, Next.js, Express, MongoDB)

A web application designed to optimize and track job hunting pipelines and contact networks.

• Engineered a localized state-handling system to securely process user data, document upload references, and dynamic funnel updates.

• Challenged system layout constraints by scaling complex relational metrics, managing scope adjustments to focus heavily on performance-centric API queries.

Scenario Analysis – Fidelity Investments (Angular, TypeScript, GraphQL, Node.js, NestJS, Jest)

A side-by-side financial planning application used to evaluate and optimize distinct economic scenarios.
• Designed and built scalable UI components with Angular and Storybook to ensure unified frontend experiences.

• Connected backend GraphQL endpoints via Apollo client architectures to yield fast, reliable data transfers.

EDUCATION

App Academy | San Francisco, CA – Web Development Curriculum (Ruby & JavaScript)

University of California, Santa Cruz | Bachelor of Science in Biochemistry and Molecular Biology