

Jack Hsu

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Professional Summary

Senior Frontend Engineer passionate about building scalable, high-performance web applications. Successfully developed **mission-critical public safety software** adopted by over 90% of emergency communications centers across the U.S. at RapidSOS. Experienced in real-time solutions, geospatial mapping, AI-assisted development, frontend optimizations, and technical leadership. Seeking to innovate and enhance user experience through **technical excellence**.

Experience

RapidSOS | Senior Software Engineer

New York, NY | July 2020 - January 2025

Key Achievements

- Developed **mission-critical public safety software** adopted by over 90% of emergency communications centers across the U.S.

Frontend Architecture & Optimization

- Optimized state management by migrating from **Redux** to **Redux Toolkit**, reducing boilerplate code and improving performance.
- Upgraded the testing framework from **Enzyme** to **React Testing Library**, improving test coverage by 65% and enhancing maintainability.
- Built a **reusable React component library** with **Styled Components**, helping standardize UI across multiple projects.
- Integrated **Storybook** as the source of truth for UI components, enhancing development speed and collaboration.

Feature Development & UI Enhancements

- Engineered a **real-time messaging platform** using **TalkJS**, improving communication speed between 911 emergency communications centers and alarm companies.
- Developed a **real-time alert and 911 emergency dispatch system** using **WebSockets**, helping reduce response times to critical incidents.
- Developed pixel-perfect **React components** from **Figma** designs, ensuring responsiveness and accessibility.
- Created **high-performance CSS animations** using the **Houdini API**, enhancing UX with minimal performance overhead.

Mapping & Geospatial Solutions

- Implemented **interactive geospatial visualizations** using **Google Maps**, **Esri Maps**, and **DeckGL**, allowing emergency responders to track live incidents with improved accuracy.

Developer Efficiency & AI-Assisted Development

- Utilized AI-powered tools such as **GitHub Copilot** and **ChatGPT** to accelerate development, reduce debugging time by 20%, and optimize code quality.

Moved | Senior Software Engineer

New York, NY | August 2019 - April 2020

- Developed a new product line using **React**, rapidly transitioning from **Angular** expertise and delivering the product in just four months.
- Led **daily stand-ups, sprint demos, and retrospectives**, wearing multiple hats at a seed-stage startup.

- Established a **formalized bug submission and escalation process**, streamlining issue resolution.

WorkStride | Engineering Manager

New York, NY | October 2018 - August 2019

- Delivered **30+ client implementations** within a year, leading a growing engineering team across the U.S. and Argentina.
- Managed **cross-functional collaboration** with product, client services, and QA teams.
- Supported **hiring and mentorship**, contributing to the expansion of the **team from 9 to 15 engineers**.

WorkStride | Senior UI Developer

New York, NY | August 2015 - October 2018

- Built a SaaS platform from the ground up using **AngularJS**.
- Established **modular UI component structures**, improving reusability and scalability.

Oracle | Senior UI Developer

New York, NY | January 2013 - July 2015

- Developed **responsive enterprise web applications** for **Oracle Taleo Recruiting software**, optimizing UI performance for **200+ global clients**.

Additional Experience

Third Mind (2011-2013), **ALM** (2009-2011), **SelectMinds** (2005-2009) — Front-End Development & Web Production Roles.

Skills & Technologies

Frontend Development: TypeScript, JavaScript (ES6+), React, Redux Toolkit, Styled Components, SCSS, CSS

Testing & Performance: Jest, React Testing Library, Enzyme

Mapping & Geospatial: Google Maps, Esri Maps, DeckGL

Developer Efficiency: GitHub Copilot, ChatGPT, Storybook, Webpack

Real-Time & Messaging: RESTful APIs, WebSockets, TalkJS

Version Control & Workflow: Git, Agile/Scrum, Jira, Figma

Education

City University – Bellevue, WA

BS in Computer Systems