

Hans Elde

✉ email@hanselde.com 📍 Seattle, WA 🖱 hanselde.com **in** /hans-elde 🔄 /eldehan

SUMMARY

I'm a full-stack software engineer based in Seattle with experience working in the frontend and backend with JavaScript, TypeScript, and Python. I'm a passionate and tech-agnostic lifelong learner eager to explore new languages, frameworks, and tools.

PROFESSIONAL EXPERIENCE

05/2023 – present
Remote

Software Engineer, ThinkMD

- Refactored critical software components, removing over 5,000 lines of obsolete functionality and enhancing documentation, reducing future maintenance overhead by 25%.
- Achieved a 33% improvement in app response times and reduced frontend-backend interaction complexity by refining PostgreSQL database schema and eliminating outdated front-end and back-end logic.
- Led the refactor of a Python codebase for enhanced cross-platform compatibility, ensuring seamless operation across Windows, macOS, and Linux.
- Addressed a high-priority bug in a web application by overhauling Vue.js front-end service worker synchronization logic, enhancing data handling reliability and eliminating data loss in regions with poor connectivity.
- Revamped Node.js regression testing infrastructure using Mocha and custom clinical testing logic, greatly increasing testing efficiency and reducing time-to-market for new features by 25%.

08/2022 – 12/2022
Remote

Co-Creator, Software Engineer, Skopos

<https://skopos-api-monitoring.github.io/> 

Skopos is an open-source monitoring tool, designed for web services that depend on reliable multi-step API workflows.

- Designed, prototyped, and built key features of Skopos such as the definition, execution, and scheduling of API monitoring tests using Typescript, Apollo GraphQL, and AWS (S3, EC2, ECS, EventBridge, Lambda, and RDS).
- Simplified test execution architecture and improved code readability by developing a containerized state machine to handle the processing, execution, and evaluation of multi-step API tests using TypeScript, XState, Express, Apollo Client, and Docker.
- Increased test execution capacity by 10x by developing a multi-tenant auto-scaling solution with Docker, ECS, and EC2 to enable the parallel execution of API tests.
- Automated AWS cloud infrastructure setup and teardown using the AWS CDK.
- Authored and edited in-depth technical case study exploring Skopos's trade-offs, architecture, and use case.

08/2021 – 08/2022

Software Engineer, Additional Open-Source Projects

07/2015 – 06/2022

Security Officer, Pike Place Market Preservation & Development Authority

SKILLS

Programming Languages

TypeScript, JavaScript, SQL, HTML, CSS, Python

Libraries & Frameworks

Vue.js, ReactJS, jQuery, Express, NodeJS, XState

Tools & Databases

Git, GitHub, Postgres, MongoDB, GraphQL, Docker

Cloud & Networking

Heroku, AWS, Nginx, HTTP, REST APIs

EDUCATION

2012 – 2015

B.A. History, Western Washington University

2021 – 2022

Software Engineering, Launch School
Mastery-based full-stack software engineering program