Hans Elde

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PROFILE

I am a software engineer based in Seattle, Washington. Recently, I built Skopos, an API monitoring tool for testing multi-step API workflows for distributed systems in production. I have multiple years of experience working with JavaScript/Node.js, TypeScript, Go, GraphQL, PostgreSQL, React, AWS, and Docker.

TECHNICAL SKILLS

Back End	Front End	Other
TypeScript, Node.js, Express.js, Go, PostgreSQL, GraphQL, MongoDB	JavaScript, React/Redux, HTML/CSS	Docker, AWS (EC2, ECS, Lambda, RDS, S3), Git/Github, RESTful APIs

TECHNICAL EXPERIENCE

Co-Creator, Software Engineer, *Skopos*   Aug 2022 – Dec 2022
https://skopos-api-monitoring.github.io/ 🔗

Created Skopos, an open-source API monitoring tool designed for testing multi-step API workflows and running multiple tests in parallel.
- 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).
- Engineered containerized state machine to handle execution of multi-step API tests and recording of test results using TypeScript, XState, Express.js, Apollo Client, and Docker.
- Architected and implemented parallel execution of API tests by hosting Docker containers on multi-tenant EC2 instances through ECS.
- Designed and developed front-end UI using TypeScript and React.
- Automated AWS cloud infrastructure setup and teardown using the AWS CDK.
- Collaborated with a remote team of 4 engineers across different time zones using agile workflow.
- Lead author of in-depth technical case study exploring Skopos's development and use case.

Full Stack Web Developer, *Additional Open-Source Projects*   Aug 2021 – Aug 2022
- WireSnoop - A RequestBin-like application for receiving and inspecting HTTP webhooks (Node.js, React, MongoDB, PostgreSQL, Nginx).
- Contacts - An application to manage contact emails and phone numbers (Node.js, Express.js, PostgreSQL).
- AirRouter - An app to filter and display info about routes flown by several large airlines (Node.js, React, Redux).

PROFESSIONAL EXPERIENCE

Public Safety Officer, *Various Companies*   2012 – 2022 | Seattle, WA
- Performed law enforcement and security patrol duties for a variety of companies.
- Worked both independently with minimal supervision and as part of a team to achieve organizational goals in dynamic, fast-paced environments.
- Conducted detail-oriented investigations and organized evidence to produce written reports and legal documents.

EDUCATION

Launch School, *https://launchschool.com/employers* 🔗   Aug 2021 – Dec 2022
A mastery-based program for software engineers

Western Washington University, *Bachelor of Arts - BA, History*   Sep 2012 – Jun 2015