# Hans Elde

## Software Engineer

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## Technical Projects

### Capstone Project - Skopos ⧉
*Co-Creator, Software Engineer*

August 2022 — present | Seattle, WA

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 such as definition, execution, and scheduling of Skopos API monitoring tests using Typescript, GraphQL (Apollo), and the AWS CDK (EC2, ECS, EventBridge, Lambda, RDS, S3).
- Implemented execution of collections of API tests using Node-based state machines, enabling testing of multi-step API workflows (TypeScript, XState).
- Contributed to implementing parallel execution of collections of API tests using multi-tenant EC2 instances hosting containers with ECS, resulting in faster completion of tests and auto-scaling of test execution (TypeScript, XState, Docker, EC2, ECS, ELB).
- Contributed to the creation of the Skopos front-end GUI leading to having an intuitive UI/UX (TypeScript, React).
- Worked with a remote team of engineers during sprints to make key design decisions (Agile Workflow).
- Co-authored and presented a technical case study exploring Skopos's design: https://skopos-api-monitoring.github.io/

### Launch School

2021 — 2022

Attended Launch School, a mastery-based software engineering program focused on learning fundamentals. Developed open-source web applications using technologies such as JavaScript, PostgreSQL, HTML, CSS, and React.

Selected Projects:
- WireSnoop - A RequestBin-like application for receiving and inspecting HTTP webhooks (Node.js, React, MongoDB, PostgreSQL, Digital Ocean Droplet, Nginx).
- Contacts - A contacts manager app (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

### Police Officer
*City of Seattle*

2018 — 2019 | Seattle, WA

Patrolled as part of a squad and responded to emergencies, performed community outreach, conducted detailed investigations, and wrote extensive incident reports and legal paperwork.

### Public Safety Officer
*Various Companies*

2012 — 2022 | Washington

Performed public safety and security patrol duties for a variety of companies.

## Technical Skills

| Back End | Front End | Tooling |
|---|---|---|
| TypeScript, Node.js, Express.js, Go, PostgreSQL, GraphQL, MongoDB | JavaScript, React/Redux, HTML/CSS | Docker, AWS Services (EC2, ECS, Lambda, RDS, S3), Git/Github, Linux |

## Education

### Launch School
*Software Engineering & Full-Stack Web Development*

### Western Washington University
*Bachelor of Arts - BA, History*

2015