

# Kasper Nilsson

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## EXPERIENCE

### Waymo, San Francisco, CA — *Software Engineer*

Full stack + product engineer building tools with Angular, Dart, Typescript, and C++, as well as a Spanner (SQL) database. Co-owner of Waymo's shared frontend component library.

#### Simulation

SEPTEMBER 2022 - PRESENT

Owner of the debugging tooling and status pages for the Waymo SimQueue, the largest compute customer at Alphabet -- simulates 8 hours of driving per second.

#### Fleet Infrastructure

FEBRUARY 2020 - SEPTEMBER 2022

Notable projects include tooling for car routing, data gathering, and car capabilities management and process optimization. Was responsible for all autonomous miles gathered in San Francisco (hundreds of concurrent vehicles).

### Google, San Francisco, CA — *Software Engineer*

#### Query Debugger (Product)

NOVEMBER 2018 - FEBRUARY 2020

Full stack + UX engineer and owner of the main platform for Google Search debugging and experimentation, built with Polymer and Typescript on the front end and a microservice backend written in Go, as well as a Spanner (SQL) database.

Focused on increasing productivity for non-technical users. Notable launches include bulk debugging of queries and a tool for rating experiments that eventually fully automated the job.

#### PolyGerrit

AUGUST 2016 - NOVEMBER 2018

Full stack engineer and maintainer for the open source Gerrit Code Review using Web Components, Java, and Bazel. Hosted version of the project is current live to >70k MAU and is the chosen tool of Chrome and Android, as well as SAP, Ericsson, and the Eclipse foundation externally.

### UpChannel, College Park, MD — *Software Engineer*

DECEMBER 2015 - JULY 2016

Bootstrapped a local startup eventually valued at \$4M in Fall 2016. Designed and built a data dashboard for visualization and analysis. Utilized React, Redux, LESS, and Jade.

## EDUCATION

### University of Maryland — *Mathematics, Computer Science*

SPRING 2016

## SKILLS

**Front-End Mastery:** Proficiency in Tailwind CSS, React, Angular, Polymer; highly capable at creating dynamic user interfaces.

**UX-Driven Development:** Focus on user-centric design; commitment to accessibility and engaging user experience.

**AI Prototyping:** Experience with AI, including LLMs like Google PaLM / Gemini and GPT-4; ability to leverage cutting-edge solutions.

**Cloud & Distributed Systems:** Skill in designing scalable systems, including serverless APIs (NextJS); utilization of cloud platforms for efficiency.

**Database & Microservices:** Management of SQL/NoSQL databases; expertise in building robust REST APIs with Golang and TS / Node.

#### Strategic Planning &

**Leadership:** Ability to translate abstract problems into solutions; alignment of tech strategies with business goals.

**Build Systems:** Knowledge in maintaining build systems with Bazel, Gulp; continuous integration and deployment focus.

#### Communication &

**Collaboration:** Aptitude for fostering collaboration; skill in authoring design docs; proficiency in presenting technical concepts.

