

JASON HOU

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SKILLS

Languages: Python, Golang, TypeScript, JavaScript, SQL, C++, C, HTML & CSS

Tools & Frameworks: React, Redux, Django, AWS, Kafka, Git, Node.js, MongoDB, Docker, Kubernetes, Wails, Redis, Neo4j

EDUCATION

University of Waterloo

B.Sc Honours Computer Engineering

Ontario, Canada

September 2020 – 2025

EXPERIENCE

Tesla

Software Engineering Intern

May 2024 – August 2024

Palo Alto, California

Golang, TypeScript, React, HTML & CSS, Wails

- Enabled engineers to view **50%** more vehicle data by integrating with GoPacket library to parse multiple proprietary ethernet protocols
- Constructed a tool to view log files of various formats (TRC, BLF, etc) via memory optimized infinite-scrolling
- Collaborated across teams to redesign the configuration flow in an internal tool for all devices, resulting in a **100%** increase in CSAT

Carta

Software Engineering Intern

January 2024 – April 2024

Waterloo, Ontario

Django, Python, React, TypeScript

- Drove the migration of security consent related features from micro-service to monolith with full feature parity
- Conceived metrics and observability features for newly integrated services, leading to a **30%** boost in user behaviour visibility
- Spearheaded numerous UI/UX improvements such as an application wide navbar refactor, enhancing user efficiency

Carta

Software Engineering Intern

May 2023 – August 2023

Waterloo, Ontario

Django, Python, React, TypeScript, Kafka

- Designed and implemented a dynamic model & event architecture to replace hardcoded terms & conditions in self-serve product flows
- Led & delivered a high-priority, cross-functional project resulting in the increase of customer tax information collection by **37%**
- Squashed bugs, wrote tests, tooling, and docs for my team as well as others

Replicant

Software Engineering Intern

September 2022 – December 2022

San Francisco, California

TypeScript, React, PostGreSql, GCP, Kubernetes

- Built a routing API to provide carrier info and route more than **31,000** customer calls to automated customer service agents daily
- Composed user interfaces to interact with data used for cloud based IP communication services (session border controllers)
- Authored a service to email clients whose API keys were nearing expiration via SendGrid

Trend Micro

Software Developer Intern

January 2022 – April 2022

Ottawa, Ontario

Golang, AWS, TypeScript, React, Redux, Python

- Engineered a highly requested user feature to allow over **500,000** customers to self-serve a free trial for any security service. This involved drafting an E2E tech spec for serverless APIs, writing infrastructure as code and implementing backend/frontend components
- Designed and deployed a new method for customer account deletion, leading to the **elimination** of falsely-billed accounts and rapid support case resolutions
- Orchestrated dead-letter queues to persist logs in cold storage after failing to re-drive events
- Conducted code reviews, unit testing and presentations regarding features and new technologies relevant to company interests

PROJECTS

Musical | *AWS, Golang, TypeScript, React, Redux, Neo4j, Redis*

- An application to connect with friends and aggregate data related to songs, artists and albums in playlists

AWARDS

LeetCode: Top 7% globally by contest rating

DMOJ: Top 1% (by points) - The largest online judge for programming contests in Canada