Jason Hou

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Skills

Languages: Python, Golang, TypeScript, JavaScript, SQL, C++, C, Java, HTML & Css
Tools & Frameworks: AWS, React, Redux, Django, Kafka, Git, Node.js, MongoDB, Docker, Kubernetes, Neo4j, Redis, Spring Boot

Education

University of Waterloo   Ontario, Canada
B.Sc Honours Computer Engineering   *September 2020 – 2025*

Experience

Carta   January 2024 – April 2024
Software Engineering Intern
Django, Python, React, TypeScript, Kafka
- Received an offer for another term as the team fit was great and there were still many things that I wanted to learn about and work on

Carta   May 2023 – August 2023
Software Engineering Intern   *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   September 2022 – December 2022
Software Engineering Intern   *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   January 2022 – April 2022
Software Developer Intern   *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 included 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

MyKaarma   May 2021 – August 2021
Software Engineering Intern   *Waterloo, Ontario*
Java, Spring Boot, AWS, Javascript, React, MongoDB, MySQL
- Constructed an API to archive **10,000** documents daily and organize them in cold storage, leading to a **40%** decrease in query times and a **60%** decrease in memory usage
- **Halved** the loading time of all web application pages and created a service to enable dealerships across North America to access thousands of hidden repair orders
- Deployed a scalable unified alerts system to monitor events and notify users via Google Chat

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

WonderPath | *Flask, Python, React MongoDB, Firebase, Google Maps API*
- A web app that allows users to enter their location and the desired distance to generate a route to explore

Awards

LeetCode: Top 7% globally by contest rating
DMOJ: Top 1% (by points) - The largest online judge for programming contests in Canada