

JASON HOU

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SKILLS

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

Tools & Frameworks: AWS, Node.js, React, Redux, Git, Docker, MongoDB, Neo4j, Redis, Spring Boot

EXPERIENCE

Software Engineering Intern

September 2022 – December 2022

Replicant | TypeScript, React, PostgreSQL, GCP, Kubernetes

San Francisco, California

- 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)
- Developed a utility to email clients whose API keys were nearing expiration via SendGrid

Software Developer Intern

January 2022 – April 2022

Trend Micro | Golang, AWS, Typescript, React, Redux, Python

Ottawa, Ontario

- 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 error information 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

Software Developer Intern

January 2022 – April 2022

MyKaarma | Java, Spring Boot, AWS, Javascript, React, MongoDB, MySQL

Waterloo, Ontario

- 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
- Implemented a serverless REST API complete with OAuth 2.0 authentication, a CI/CD pipeline, database custom querying service
- Utilized Neo4j to persist a social graph of users and Redis to cache user info
- Deployed a React web app within a publicly hosted S3 bucket, using Redux for state management and Grommet UI for styling

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
- Built a Python REST API using Flask and a database of users with MongoDB
- React, jQuery, HTML and CSS to create the front end, with Firebase user authentication
- Reverse engineered the Haversine Formula to write a path generation algorithm with Google Maps API

AWARDS

LeetCode: Top 7% globally by content rating

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

EDUCATION

University of Waterloo

B.Sc Honours Computer Engineering

Ontario, Canada

September 2020 – Present