Charles Zhang

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Skills

Languages: Go, Python, Ruby, JavaScript (ES6+), TypeScript, C, C++
Technologies: Node.js, Rails, React, MongoDB, MySQL, Memcached, Docker, Google Cloud, Datadog, AWS

Internship Experience

Shopify, Production Engineer

Remote   *May 2020 - August 2020*

- Designed and built a tool using **Ruby on Rails**, **MySQL**, and **Google Cloud Storage** that enables mobile developers to load different app versions in seconds, boosting development efficiency.
- Improved metrics reporting and error logging in Shopify's **Mac minis infrastructure**, increasing visibility of usage data for MacOS images and iOS build errors in **CI pipelines**.
- Optimized an internal release service by implementing pagination and filters in its **SQL** queries, improving the mobile deployment page performance **from 6s to 800ms**.

Wish, Software Engineer

San Francisco, CA   *Sep 2019 - Dec 2019*

- Implemented credit card CVV verification using **Python** and **MongoDB**, decreasing cart dropoff rate by **20%** while preventing account takeover fraud.
- Utilized **Amazon SQS** to improve a scheduled payment service by queueing and executing tasks asynchronously, speeding up its runtime by **50%**.
- Developed an installment loan feature that allows users to pay in smaller monthly payments, increasing the gross merchandise value in targeted countries by **8%**.

League Inc, Software Developer

Toronto, ON   *Jan 2019 - May 2019*

- Architected web services using **Go** and **MongoDB** to facilitate membership reporting for clients in **multi-billion dollar** companies, increasing efficiency for League's Customer Success Team.
- Took ownership of the end-to-end integration between client HR system and League, automating the user and benefit update process for **3000+ users**, eliminating **hundreds of manual work hours**.

ConsenSys, Software Developer

Kitchener, ON   *May 2018 - Aug 2018*

- Designed and implemented a web API using **Node.js** and **MongoDB** to calculate a project's progress from its objectives, allowing clients to better manage their projects and goals.
- Developed UI components using **React** + **Redux** that enabled users to define their roles across multiple teams, increasing transparency across an organization with **1000 employees**.

Projects

Stego ⭘ A CLI tool built in **Go** that hides data in images using LSB steganography.

Lejr ⭘ A **Node.js** app that supports money transfer among friends. Winner of **Best API prize** at UofTHacksV.

Education

University of Waterloo   *Sep 2017 - Apr 2022*

- Bachelor of Computer Science Candidate, Major GPA: 91.7%