Charles Zhang

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Skills

Languages: Go, Python, JavaScript (ES6+), C, C++, Kotlin
Technologies: Node.js, React, Redux, MongoDB, SQL, Android, Neo4j

Work Experience

Wish, Software Engineering Intern

Payments Team · San Francisco, CA · Sep 2019 - Present
- Implemented credit card CVV verification with Stripe and Braintree in **Python**, preventing account takeover fraud and polishing the checkout experience for **500 million** users.
- Engineered an installment loan feature on Wish's **Android** app, giving users the option to pay in smaller monthly installments, increasing users' average order value and the company's revenue.
- Improved a transaction processor by using **Amazon SQS** to queue and execute tasks asynchronously, shortening its run-time by **50%**.

League Inc, Full Stack Developer

Integrations & Reporting Team · Toronto, ON · Jan 2019 - May 2019
- Architected web services in **Go** 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**.
- Built a new invoicing dashboard using **React + Redux**, improving the visibility of invoice information to clients and the finance team.

ConsenSys, Full Stack Developer

Sobol · Kitchener, ON · May 2018 - Aug 2018
- Designed and built backend services using **Node.js** 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 allowed users to define their roles across multiple teams, increasing transparency across an organization with **1000 employees**.
- Liaised with the product team and drafted a technical design document for a major product release, resulting in a smoother and faster development phase.

Projects

Receiptify Hack the North 2018, *Sep 2018*
- Won **Intuit QuickBooks Online API Prize** and **XE Currency Data API Prize**.
- Utilized OCR to parse receipts in any currency, allowing users to split expenses while traveling.

Lejr UofTHacks 2018, *Jan 2018*
- Won **Best REST API Prize** by RBC.
- Built a web application for users to request money from friends using Interac e-transfer.

Education

University of Waterloo, *Sep 2017 - Apr 2022*
- Bachelor of Computer Science Candidate, Major GPA: 90.5%