Clement Tsang

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SKILLS

Languages: Rust, Python, Go, JavaScript, C, C++, Java, Kotlin, C#
Tools: Git, Datadog, Docker, Kubernetes
Technologies: Kafka, React Native, SQL, MongoDB, Hive, Vue.js, Node.js, PyTorch

EXPERIENCE

Software Engineering Intern
May 2021 – Aug 2021
Datadog

- Designed and wrote an internal tool using Rust to pull, store, and replay real-world loads from the team's services for debugging or load-testing purposes, speeding up the development and bug-fixing process.

Software Engineering Intern
Sept 2020 – Dec 2020
Wish

- Improved the success rate of a product check-in process using barcodes by nearly 2.5 times, while also optimizing the worst-case runtime per barcode from 24 seconds down to 2 seconds.
- Used Python and React Native to implement the backend and frontend for a new user experience allowing stores to set important public details about themselves for customers.
- Implemented a new sign-up process using Python and React Native for stores to educate and encourage stores to join a program allowing the company to consolidate orders and ship them to the store, reducing shipping costs.

Software Engineering Intern
Jan 2020 – Apr 2020
Wish

- Created a new package check-in system for stores in Python and React Native, streamlining the process for users and completely automating refunds for lost packages.
- Implemented a new management system for stores to search and edit listed products using Python and React Native.
- Improved and added to internal admin tooling and reporting using Python and JavaScript.

Software Developer – Full Stack
May 2019 – Aug 2019
YuJa

- Implemented an internal management console using Vue.js and Node.js to easily control parts of a service from a web interface.
- Completely redesigned a file conversion service for documents using C#, producing both better-looking results and decreasing the conversion time per file from 20 seconds to 4 seconds when compared to the old implementation.
- Designed and implemented a responsive browser document reader with accessibility tools, such as OCR and text-to-speech, using Vue.js.

PROJECTS

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- Used Rust to create a lightweight, configurable, and cross-platform terminal application for graphically displaying resource usage and process management, inspired by tools like htop.

EDUCATION

University of Waterloo
Sept 2017 – Expected Apr 2022
Candidate for Bachelor of Computer Science