Clement Tsang

cjhtsang@uwaterloo.ca
github.com/ClementTsang
clementtsang.github.io
linkedin.com/in/clement-tsang

SKILLS

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

EXPERIENCE

Software Engineer
Aug 2022 – Present
Datadog

Backend Developer Intern
Sept 2021 – Dec 2021
Shopify

- Worked in the Commerce Trust and Integrity Team to improve the detection and management of bad actors among merchants.
- Sped up an internal website used by analysts for managing non-compliant and fraudulent merchant tickets by better utilizing Elasticsearch's API and various Rails optimization techniques.

Software Engineering Intern
May 2021 – Aug 2021
Datadog

- Designed and wrote an internal tool using Rust to record, store, and replay real-world loads from the team's services for debugging or load-testing purposes to speed development.

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 that stores could use to set important details for their customers.

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 product management system for stores to search and edit listed items.

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 better-looking results while also decreasing the conversion time per file from 20 seconds to 4 seconds.
- Designed and implemented a responsive browser document reader with accessibility tools, such as OCR and text-to-speech, using Vue.js.

PROJECTS

bottom

- 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 – Apr 2022
Bachelor of Computer Science with Distinction