Clement Tsang

✉ cjhtsang@uwaterloo.ca
☎ 647-993-6280
⌨ github.com/ClementTsang
▢ clementtsang.github.io
in linkedin.com/in/clement-tsang

SKILLS

Languages: Rust, Python, JavaScript, TypeScript, C, C++, Java, Kotlin, SQL, C#
Technologies: React Native, MongoDB, Hive, Vue.js, Node.js, Docker, TensorFlow, PyTorch

---

EXPERIENCE

Software Engineering Intern
Sept 2020 – Dec 2020
Wish
Toronto, ON

- 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 to 2 seconds.
- Used Python and React Native to implement the backend and frontend for a brand-new user experience to allow stores to set important public details about themselves for consumers.
- Implemented a new sign-up flow 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
Toronto, ON

- 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
360 Education Labs
Toronto, ON

- 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.

Software Developer – Testing and Operations
Sept 2018 – Dec 2018
360 Education Labs
Toronto, ON

- Designed and wrote automated tests using Selenium and Java to reduce the total QA test count by about 10%.

PROJECTS

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

guya.moe
- Used Azure Cognitive Services and C# to develop an OCR tool used to continuously index an ongoing series by the text on the page, allowing for users to search for any page by keywords.

EDUCATION

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