Clement Tsang

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SKILLS

Development: Rust, JavaScript, C++, C, Java, HTML, CSS, C#, Python, SQL
Technologies/Frameworks: Vue.js, MongoDB, Node.js, jQuery, AWS, Azure Cognitive Services, React, Selenium, Docker

EXPERIENCE

Software Developer – Full Stack
May 2019 – Aug 2019
360 Education Labs | Toronto, Ontario

- Worked closely with product managers and testers to implement new features and fix bugs to develop a new product
- Designed a responsive reader to display converted HTML files alongside OCR and TTS tools
- Implemented a redesign of one of the product's file converter tools, dropping the conversion time from 20 seconds to about 4 seconds
- Implemented a management console for internal use, allowing for simpler access to admin tools amongst staff

Software Engineer – Testing and Operations
Sept 2018 – Dec 2018
360 Education Labs | Toronto, Ontario

- Ran QA tests to ensure consistency in quality of new features and the product without causing regressions, to maintain customer satisfaction
- Designed automated tests, reducing the QA workload by about 10% using Selenium

PROJECTS

bottom
- Developed a lightweight and cross-platform command-line based graphical resource monitor
- Provides widgets to monitor component temperature, usage of the CPU, memory, network, and disk, and process management

guya.moe
- Used Azure Cognitive Services to develop an OCR tool used to continuously index the entirety an ongoing series, allowing for users to search for the location of words from any page
- Outputs and can automatically update a JSON file corresponding to a dictionary of words and their locations

RustNAO
- Implemented a Rust wrapper library for SauceNAO, a popular reverse image searcher

rustcc
- Developed a C compiler written in Rust which converts C code into x86 Assembly, using a custom parser and code generator
- Added support for basic C syntax, including unary and binary operators, variables, compound statements, branching, loops, and functions

EDUCATION

University of Waterloo
Sept 2017 – Present
Bachelor of Computer Science