


Jiayi Zhao

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Experiences

Open Source Runtime Developer | IBM

May 2019 – Present

- Ported internal disassembler to **Capstone**, eliminating months of work needed to add z13, z14 and power9 cpu instruction support
- Integrated **Lua** scripting support to disassembler to automate workflows
- Reduced debugging times by implementing **C++** name demangling to produce human readable binary sequences
- Ensured disassembler understands core dump of all 11 platforms supported by IBM
- Created dockerfiles for **Jenkins** and other java programs to run on **Openj9**

Teaching Assistant | University of Toronto

Sept 2017 – Present

- Intro to CS 1 & 2, Software Design, Systems Programming and Software Tools
- Taught tutorials of 30 students on many programming topics using languages such as **C**, **Java** and **Python**
- Simplified advanced programming concepts for students to understand such as pointers, memory allocation, polymorphism, **generics**, inheritance and **interfaces**

Skills

Languages: Python, Rust, C, Java, Go, Javascript, Haskell, Bash, SQL, Verilog

Libraries/Frameworks: React, Capstone

Tools: Linux, UNIX, Git, SVN

Education

Bachelor of Science

Sept 2016 – Sept 2021

3rd year, University of Toronto, (**GPA 3.7/4.0**)

Computer Science Specialist Co-op, Software Engineering

Side Projects

File Manager | Rust

Dec 2018 – Sept 2019

- Increased program throughput by applying **concurrency** using threads
- Applied functional programming paradigms such as **closures** and pattern matching
- Utilized Rust features such as lifetimes and traits to produce maintainable code
- Made use of existing C libraries by writing wrapper code for Rust to interface with

Reverse Image Search | C

Dec 2016 – Dec 2018

- Enabled large amounts of photos to be processed by automating web form interactions using **libcurl**
- Provided an easy to use interface that allowed filtering of less similar results

Discord Bot | Go

Dec 2016 – Dec 2018

- Utilized web APIs of various websites to post daily images
- Integrated reverse image searching as a user by simply uploading a file on discord

Extracurricular

UofT Hacks | Python

Jan 2018

- Produced a central platform for accessing genetic information and relations from existing public datasets using **Django**

Developer Student Club Executive | VP Marketing

Aug 2019 - Present

- Managed Facebook posts, emails and Eventbrite events

Microsoft msft3c Winner | 1st place

Jan 2017

- Worked in a group of three to complete a set of coding problems