

Devin Zhou

Toronto, ON

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EDUCATION

Toronto Metropolitan University (Ryerson University)

Sept 2019 May 2024

Bachelor of Science (Honours) - Computer Science (Co-op)

Toronto, ON

- **Coursework:** Data Structures, Algorithms, Databases, Graphics, Security, Networking, AI, Computer Vision

SKILLS

Languages : Java, Python, C, C++, JavaScript, Apache Groovy, PHP, HTML/CSS, MySQL, Bash, Ruby

Tools : Jenkins, Git, Linux, Github Actions, Gerrit, JFrog Artifactory, Docker, Selenium, Robot Framework, Unity

EXPERIENCE

AMD

May 2022 April 2023

Platform Firmware Integration and Validation Engineer (Co-op)

Thornhill, ON

- Managed Continuous Integration and Continuous Deployment (**CI/CD**) pipelines on **Jenkins** for firmware validation across real-time graphics products (Navi, MI300, APUs, Chromebook)
- Addressed repetitive firmware validation and debugging tasks by developing automation scripts using **Apache Groovy, Python, Bash, Ruby, and Docker**, improving the efficiency and consistency of validation workflows
- Led semi-weekly reviews of nightly regression results, debugging pipeline failures and identifying improvements for pre-silicon validation flows improving CI pipeline success rate by 12%
- Managed lab operations and infrastructure for **15 test benches**, including hardware maintenance, server management, and remote access configuration
- Supported deployment and testing of firmware for hardware prototypes during bring-ups, working with developers across **7+ firmware teams** to drive tickets to completion
- Flashed, validated, and debugged firmware and drivers across pre-silicon emulation (SimNow) and ASIC platforms using JTAG, while managing build artifacts via JFrog Artifactory

The Nationwide Group

May 2021 Aug 2021

Quality Assurance Analyst (Co-op)

Markham, ON

- Contributed to a team of 8+ developers to implement updates to a web service supporting homebuyers and realtors
- Wrote automated tests for the RELNKS web-based system using **Robot Framework** with the **Selenium Library**
- Developed and executed test cases for new features, identifying and reproducing 25+ design and functional defects and validating fixes through regression testing
- Conducted routine **functional** and **regression** tests for new builds across 20+ regional variations of the platform

PROJECTS

Student Course Registry

Java

- Developed a course registry program to schedule a students courses into time slots using object-oriented programming to create a directory of students and courses.
- Created different types of course objects using polymorphism and inheritance.
- Implemented data structures to store objects (2D Arrays, Trees) and sorting algorithms utilizing comparators.

Rogue Poker

Python

- Created a vertical slice of Balatro's core game loop in Python with modular poker hand detection and scoring algorithms that handle complex rule interactions
- Built a dynamic and maintainable system through abstraction, state management and functional decomposition
- Automated code testing and linting pipelines using pytest and pylint with GitHub Actions CI/CD