

WORK EXPERIENCE

Canonical

Software Engineer - Cross Platform C++ - Multipass

Sep 2024 - Nov 2025

- Developed critical components in C++, Rust, and Flutter/Dart for cross-platform (Linux, macOS, Windows) virtualization platform and spearheaded migration of codebase from C++ to Rust
- Designed and implemented cloud technologies such as Availability Zones & Block Storage to match the capabilities of cloud providers such as AWS, Azure, and Google Cloud
- Led dependency modernization efforts and platform-specific improvements, including addressing user issues and resolving critical bugs in an open source GitHub repository with over 8,700 stars

AMD (Advanced Micro Devices Inc.)

Software Engineer - ML Development

May 2024 - Sep 2024

- Designed and developed a scripting tool to automate scanning and analysis of WinDbg and GDB debugging logs for integrated NPUs (Neural Processing Units), significantly reducing manual debugging time and improving issue identification accuracy
- Implemented robust parsing algorithms in C/C++ and JavaScript to handle large-scale log files, enhancing tool performance and scalability for enterprise-level debugging workflows

Software Engineer Intern

May 2022 - May 2023

- Developed and debugged C/C++ Windows kernel drivers, leading to substantial enhancements in system performance and program stability
- Managed Jenkins job pipeline for PRIME team using Batch, AutoIT, Python, and YAML scripting, delivering crucial testing data and improving project results
- Implemented an internal web application using Svelte and TailwindCSS for automated testing and data analysis and PHP and JSON for server-side data processing and .csv file generation
- Gained proficiency in Confluence, Jira, Github Enterprise, and internal build/release tools

Sanofi Pasteur

Sanofi Manufacturing System Change Leader

Jan 2022 - April 2022

- Promoted after internship period to oversee implementation of Sanofi Manufacturing System in the ETS department and related departments, providing additional assistance and bringup to new facilities being built as part of a ~\$1 billion CAD government project

Engineering Technical Services Intern

Jan 2021 - Dec 2021

- Developed algorithms and designed software for Microsoft apps, driving substantial efficiency improvements and streamlining the team's workflow
- Created a SharePoint website to enhance team collaboration and resource management, and was responsible for its upkeep and administration

EDUCATION

York University

Bachelor of Arts - BA, Computer Science

Feb 2024

SKILLS

- C/C++ (SDL, Boost, OpenCV, Qt, CMake) | Java (Spring, Hibernate, JUnit, Maven, Gradle)
- Python (Django, Flask, NumPy, Pandas) | HTML/CSS/JavaScript (Vue, Angular, React, Svelte)
- Visual Studio, WinDbg, Git, SVN, Perforce, Linux, GDB, Jenkins, Jira, PHP, JSON