

DAVID PEET

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in dapeet

🔗 davidpeet8

EXPERIENCE

Software Developer Intern

McAfee LLC 🔗

📅 January - April 2020

⚙ C++, Bash, Win32API

- Prevented **99% of unnecessary device reboots** from the McAfee installer affecting **500+ million users**
- **Instrumented installer binary** pinpointing performance bottlenecks composing **70% of install time**
- Increased installer efficiency using **multi-threading & concurrency**
- Used **Inter Process Communication** to synchronize parallel execution of install engine instances
- Improved Angular UI **efficiency** and upgraded framework version
- Leveraged **CEF** to facilitate **event driven communication** between backend and UI in response to user input and install progress

Software Developer Intern

Axonify Inc. 🔗

📅 May - August 2019

⚙ Java, Hibernate, JS, Backbone, MySQL

- Led development of client side features released to **100 000+ users**
- Designed **Modular code** leveraging **dependency injection** to accommodate the exponentially increasing server load
- Created efficient, testable, **cross-browser compatible** client side components in **Backbone.js**
- Leveraged Mocking & Unit testing frameworks **Mockito & JUnit** creating efficient **unit tests** for Server code
- Extended **RESTful APIs**, increasing scalability of legacy code

SIDE PROJECTS

Minimalist Valgrind Emulation 🔗

⚙ C++ · C · Make

- Implemented CLI **Valgrind** emulation, **detecting and reporting** base address and size of **memory leaks**
- Leveraged **Kernel persistent IPC** enabling external processes to send messages to the shim modifying behavior
- Utilized **POSIX compliant** system calls including fork & exec to facilitate a **multi-process architecture**
- Utilized static linking providing memcheck a **separate heap space** from client code
- Implemented **DLL injection** enabling **library call interception** by forcing new and delete symbol resolution before libstdc++ linkage
- Leveraged readelf to view **dynamic and procedural linkage tables** to assist in **debugging dynamic symbol resolution**

Git Branch Hierarchy Tracker 🔗

⚙ Java

- Created CLI **tracking the parent-child-orphan relationships** of git branches
- Utilized **serializable interface** facilitating efficient storage of branch state
- Leveraged **multiple processes** to **obtain state information** regarding the working local git repository

LANGUAGES

C++ C Java JavaScript Bash
TypeScript Assembly SQL

TECHNOLOGIES

Git Win32API Make Hibernate
Spring Node.js Angular Docker
Linux Backbone.js Sass Grunt

EDUCATION

Bachelor of Computer Science,
University of Waterloo

📅 Sept 2018 - June 2023

CGPA - 3.79/4.0

ACHIEVEMENTS

🎓 **Term Dean's Honours List**
1A Term

🎓 **UW Waterloo County Entrance Scholarship**
Outstanding academic performance

🎓 **UW Presidents Scholarship of Distinction**
Over 95% entrance average

🏆 **OFSAA Bronze Medal**
Finished 3rd in Ontario in the Discus throw (10 000+ athletes)

🏆 **Mike Moser Memorial Award**
Excellence in academics and athletics (1000+ students)

🏆 **Ontario Basketball Cup Gold Medalist**
OBA Cup Champions with regional travel team (100+ teams)

INTERESTS

- Operating System & Compiler Design
- Computer Security
- Data Networking
- Fullstack Development
- Basketball, Volleyball, Track & Field