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 exponentially increasing server load
- Created efficient, testable, **cross-browser compatible** client side components in **Backbone.js**
- Extended RESTful APIs, increasing scalability of legacy code
- Leveraged Mocking & Unit testing frameworks Mockito & JUnit creating efficient unit tests for Server code

SIDE PROJECTS

Streamlined Valgrind %

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 %



- 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



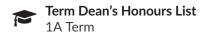
EDUCATION

Bachelor of Computer Science, University of Waterloo

🛗 Sept 2018 - June 2023

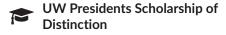
GPA - 3.79/4.0

ACHIEVEMENTS





Outstanding academic performance



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