DAVID PEET

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EXPERIENCE

Compiler Software Engineering Intern — Huawei 🔗

📅 September - December 2020 ⚙ C++, LLVM, Bash

- Incoming Compiler Software Engineering Intern, will be researching and implementing **optimizations** for **LLVM compilers**

Software Developer Intern — McAfee 🔗

📅 January - April 2020 ⚙ C++, Bash, Win32API

- **Profiled and optimized** McAfee product installers pinpointing performance bottlenecks composing **70% of install time**
- Prevented **99% of unnecessary device reboots** from the McAfee installer affecting **500+ million users**
- Enhanced UI **efficiency** and upgraded to newer Angular framework

Software Developer Intern — Axonify 🔗

📅 May - August 2019 ⚙ Java, Hibernate, JS, MySQL

- Led development of front end modules released to **100 000+ users**
- Updated **REST API endpoints** to accommodate increasing server load
- Designed **15+ testable**, **cross browser compatible**, and **maintainable** front-end components
- Increased code coverage of back-end services with unit testing using **Mockito & JUnit**

PROJECTS

Note Modules 🔗 — ⚙ **TypeScript** · **Python** · **C++**

- Enhances note taking with **code snippets & MD + Latex rendering**
- Prevents data duplication with **pre-processing** allowing **inline embedding of notes** at build time
- Leverages **parallel processing** & IPC to improve **testability** and separation of concerns
- Utilizes **Google-test** framework to validate command recognition

Memory Sanitizer 🔗 — ⚙ **C++** · **C** · **Make**

- Provides efficient memory leak reporting **>100x faster** than **Valgrind**
- Facilitates lightweight & rapid **leak checking for large applications** with **minimal performance overhead**
- Software shim facilitates **use on production builds without recompiling**
- Provides **insight into compiler optimizations** by displaying true size of allocation including compiler induced padding
- Utilizes **POSIX compliant** syscalls for Linux based OS compatibility
- Utilizes **static linking** separating library and client **heap space** preventing the sanitizer from recording it's own memory consumption

SKILLS

C++ · C · Java · JavaScript · Bash · TypeScript · Python · SQL

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

EDUCATION

BCS, University of Waterloo
3rd Year / Junior Year

📅 Sept 2018 - April 2023

GPA - 3.83/4.0
- Data Structures: 96%

ACHIEVEMENTS

🎓 **2x Term Dean's List**

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

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

🏆 **OFSAA Bronze Medal**
3rd / 10 000+ athletes in Discus Throw at OFSAA

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

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

INTERESTS

- Operating System & Compiler Design
- Computer Security
- Distributed Systems
- Strategy Board Games
- Basketball, Volleyball, Track & Field