

DAVID PEET

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in dapeet

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EXPERIENCE

Compiler Software Engineering Intern • Huawei 🌐 Sept - Dec 2020

- Increased **power efficiency** of global data access by **66%** by converting proprietary object file format to ELF
- Reduced compiler build time by **10+ minutes** by migrating to new linker and build system
- Reduced debugging time of failing remote compilations by implementing system enabling compiler to replicate option config for local debugging
- Identified & resolved compiler correctness issues including incorrect function attribute propagation

Software Developer Intern • McAfee 🌐 Jan - Apr 2020

- Pinpointed performance bottlenecks composing **70%** of install time by profiling product installers
- Eliminated **99%** of unnecessary device reboots from the Windows System Security installer affecting **500+ million** users
- Reduced technical debt by updating Angular framework version for installer UI

Software Developer Intern • Axonify 🌐 May - Aug 2019

- Developed **15+** testable & maintainable front end components released to over **100 000+** users
- Increased back-end service code coverage using Mockito & JUnit

PROJECTS

Note Modules 🌐 ⚙️ Python · C++ · Angular

- Achieves minimal network latency by locally hosting **RESTful endpoints** using **Flask** for file-system queries
- Leverages **concurrent design** & IPC for process synchronization leading to a highly responsive user experience
- Combats anti-patterns in Markdown specification & prevents data duplication by pre-processing source markdown
- Addresses traditional note taking issues including searching & avoiding data duplication by supporting fast deep searching and note pre-processing

Memory Sanitizer 🌐 ⚙️ C · C++

- Achieves **>100%** faster startup time and **>2 000%** less run-time overhead than Valgrind leading to lightweight memory leak checking
- Operates on existing production builds without recompilation by using a software shim design, intercepting system calls
- Achieves cross platform compatibility by conforming to the **POSIX** system call interface

SKILLS



EDUCATION

University of Waterloo
Bachelor of Computer Science
Junior / 3rd Year

Sept 2018 - Present

GPA - 3.83/4.0 | 87.15%

- Data Structures: 96%

ACHIEVEMENTS

🎓 Term Dean's List
>87% term average

🏆 Track & Field Provincial Bronze
3rd / 10 000+ athletes @ OFSAA

🏆 Mike Moser Award Recipient
Graduating athlete top student (1000+ students)

🎓 Waterloo County Scholarship
Outstanding academic performance (10 000+ students)

🎓 Presidents Scholarship of Distinction
97% entrance average

🏆 Athlete of the Year
MVP in 3 sports (1000+ students)

🏆 Ontario Basketball Gold Medalist
OBA Cup (100+ teams)

INTERESTS

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