# DAVID PEET

% davidpeet.me

in dapeet

davidpeet8

### **EXPERIENCE**

#### **Compiler Software Engineering Intern**

Huawei %

Sept - Dec 2020

C++, LLVM, OpenCL

- 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
- Vastly reduced debugging time of remote compilations by implementing metadata option passing enabling config replication for local debugging
- Identified & resolved compiler correctness issues including incorrect function attribute propagation

#### **Software Developer Intern**

McAfee %

Jan - Apr 2020

C++, Bash, WinAPI

- Pinpointed performance bottlenecks composing 70% of install time by profiling product installers which led to designing an approach to reduce install time
- 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 %

😋 Java, JavaScript, MySQL

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

# **PROJECTS**

May - Aug 2019

#### Note Modules %

🗱 Python · Angular · C++

- Achieves minimal network latency by locally hosting RESTful endpoints using Flask for file-system queries
- 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 blazing fast deep searching and note pre-processing

## Memory Sanitizer %

C++ · C · Make

- Achieves >100% faster startup time and >2 000% less runtime 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