Kevin Feng

✉ wlfeng@uwaterloo.ca | 📱 416 - 887 - 3598 | ⓞ kevinfwl | 🖥 kevinfwl.com

Skills

Languages: Java, Python, JavaScript, C++, C, HTML/CSS, Bash, SQL
Frameworks: NodeJS, VueJS, Angular, Flask, Spring
Data and Tools: Jenkins, Docker, Linux, OpenSSL, JProfiler, Bash, Azure, GCP, Bazel

Experience

Datadog - Software Engineering Intern   Jan 2021 - Apr 2021

- Developed Bytebuddy integrations in Datadog's Java APM client (distributed tracer) for auto instrumenting 3 popular open source projects, namely Quartz Scheduler, Netflix Zuul & IBM OpenLiberty
- Owned development of a cloud native buildpack for contributing the tracer to Docker images running Java apps
- Deployed containers running the client into AWS ECS to test memory/GC performance under heavy loads
- Redesigned the tracer's test framework, providing smoke tests with full visibility into metrics generated by tracer

Quantstamp - Blockchain Researcher   May 2020 - Dec 2020

- Conducted security reviews on 19 decentralized finance applications which have a total AUM of $1.5B
- Developed Ethereum smart contracts using Solidity & Web3 for xtoken's smart token staking platform
- Reprogrammed ETH 2.0 nodes to act maliciously on the distributed network to test against DoS & eclipse attacks

Blackberry - Software Development Intern   Sept 2019 - Dec 2019

- Developed a framework to benchmark internal Java encryption libraries, detecting inefficiencies of up to 300%
- Updated an AES-GCM algorithm by removing branch mispredictions, increasing speed of upstream services by 18x & memory footprint by 90%
- Wrote/deployed unit tests in Jenkins pipeline, improving code coverage for ECDSA & RSA implementations by 50%

McAfee - Software Engineering Intern   Jan 2019 - Apr 2019

- Redesigned and developed, from the ground up, McAfee's big data governance platform using SEAN stack
- Wrote a program that translate Google Analytics queries to SQL for Databricks, supporting 2 business teams
- Released 3 quality of life patches for various internal web apps, improving page load times by 20%

Versapay - Software QA Engineering Intern   May 2018 - Aug 2018

- Redesigned an automation framework to centralize governance of tests and improve OOP compatibility
- Developed a test suite using Selenium for over 54 use scenarios, leading to the discovery of 6 critical bugs

Projects

UW Path 🔗 [VueJS, Django, PostgreSQL, Docker]

- A course planning platform for UWaterloo's curriculum (encompassing 70+ programs) with 2000+ users

WLP4 Compiler [C++]

- A compiler for a C++ like language that outputs into MIPS assembly using a LR1 parser

Education

University of Waterloo   Expected Graduation: 2022

Bachelor of Computer Science - Minor in Combinatorics & Optimization

- 3.78/4.0 mGPA - Data Structures, Algorithms, Operating Systems, OOP, Networks