Guangyuan (Charlie) Yang

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Education

University of Waterloo
Candidate for Bachelor of Mathematics
Expected 2021

Skills

Programming: Python, Go, C, C++
Cloud: Backend/Infra Development, Scripting, UNIX System Engineering

Experience

Hudson River Trading   New York, NY (Remote)
Systems Engineering Intern   Jan 2021 - Apr 2021

- Designed and implemented a real-time in-kernel storage monitoring tool with eBPF and Prometheus
- Implemented in-house monitoring and profiling tools for ZFS/NFS filesystems and networking

Instacart   Toronto, ON
Data Engineering Intern   Sep 2019 - Dec 2019

- Built an orchestration service platform for California Consumer Privacy Act (CCPA) compliance
- Implemented and optimized data ETL pipelines with Snowflake and Apache Airflow

Autodesk   San Francisco, CA
Infrastructure Engineering Intern   Jan 2019 - Apr 2019

- Developed a backend monitoring system and an integration bot that improved developer efficiency
- Improved infrastructure tools for standard builds, container orchestration and data piping

Activision   Shanghai, China
Software Development Intern   Sep 2017 - Dec 2017

- Implemented server-side features, interfaces, and tests for the Call of Duty Online titles
- Diagnosed and optimized core multiplayer features alongside the SRE team

FreeBSD Foundation   Kitchener, ON
Open-Source Software Developer   May 2017 - Aug 2017

- Developed and improved several of FreeBSD's kernel, userland components and test cases
- Implemented proof-of-concept IoT projects on Raspberry Pi boards running FreeBSD

NAVBLUE, an Airbus Company   Waterloo, ON
Software Developer   Sep 2016 - Dec 2016

- Implemented a centralized release management web application used by all Dev and QA teams
- Improved the ETL scripts that reduced the database update latency by 98%

Activities

The FreeBSD Project   Remote
Committer   Sep 2017 - Present

- FreeBSD is a modern open-source Unix-like OS that powers servers, desktops, and embedded devices
- Working on the official ports and package repository, and packaging and doc infrastructure
- Working with contributors worldwide on bug reports, code reviews, patches, and mentoring