

# Guangyuan (Charlie) Yang

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## Education

### University of Waterloo

Bachelor of Mathematics, Co-operative Program  
2016 - 2021

## Skills

**Programming:** Python, Go, C, C++

**Cloud:** Backend/Infra Development,  
Scripting, UNIX System Engineering

## Experience

### Autodesk

Toronto, ON (Remote)

Software Engineer II

Jan 2022 - Present

- As a Software Engineer within the ACS Deployment Platform Engineering team, my responsibility is to design, and implement infrastructure automation layers including Python/Shell scripts, Terraform modules, API endpoints and backend services, enabling feature teams across the company to share common infrastructure while having the ability to customize, deploy services with one-click and enjoy the out-of-the-box CI/CD pipelines, deployment features, databases, service monitoring and logging.
- Help build and administer scalable and reliable Kubernetes clusters with Spinnaker and AWS EKS
- Participate in on-call rotation and support feature engineers in the deployment platforms and pipelines

### Hudson River Trading

New York, NY (Remote)

Software Engineering Intern, Systems (Co-op)

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

Software Engineering Intern, Data (Co-op)

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

Software Engineering Intern, Infrastructure (Co-op)

Jan 2019 - Apr 2019

### Activision

Shanghai, China

Software Engineering Intern, Backend (Co-op)

Sep 2017 - Dec 2017

### FreeBSD Foundation

Kitchener, ON

Software Engineering Intern, Open-Source OS (Co-op)

May 2017 - Aug 2017

### NAVBLUE, an Airbus Company

Waterloo, ON

Software Engineering Intern, DevOps (Co-op)

Sep 2016 - Dec 2016

## 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, packaging and documentation infrastructure
- Working with contributors worldwide on bug reports, code reviews, patches, and mentoring