

Guangyuan (Charlie) Yang

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Education

University of Waterloo

Candidate for Bachelor of Mathematics
Expected 2021

Skills

Programming: Python, Go, C, C++

Databases: PostgreSQL, Redis, MongoDB

Cloud Infrastructure: AWS, GCP, Terraform

Experience

Instacart

Toronto, ON

Data Engineering Intern

Sep 2019 - Dec 2019

(Python, Go, PostgreSQL), (AWS, Airflow, Snowflake, Elasticsearch)

- Built an orchestration service platform for California Consumer Privacy Act (CCPA) compliance
- Maintained and shaped optimal pipelines and data warehouses alongside data scientists

Autodesk

San Francisco, CA

Infrastructure Engineering Intern

Jan 2019 - Apr 2019

(Python, Redis, PostgreSQL, RabbitMQ), (AWS, Spinnaker, Terraform, Salt)

- Developed a GitHub, Atlassian and Spinnaker integration tool that improved developer efficiency
- Designed and implemented a runtime monitoring system for all production backend services
- Improved infrastructure tools for standard builds, container orchestration and data piping

Activision

Shanghai, China

Software Development Intern

Sep 2017 - Dec 2017

(Python, MySQL, Redis), (CentOS, Elasticsearch)

- Implemented server-side interfaces and tests for Call of Duty: Online game features
- Diagnosed and optimized core multiplayer features alongside the SRE team
- Developed internal monitoring tools for server log aggregation, analytics and alerts

FreeBSD Foundation

Kitchener, ON

Open Source Software Developer

May 2017 - Aug 2017

(C, Shell, Python, Makefile), (FreeBSD)

- Designed, developed and improved FreeBSD's userland and kernel tools
- Implemented several IoT projects on Raspberry Pi and BeagleBone boards running FreeBSD

Activities

UWaterloo Autonomous Vehicle Design Team

Waterloo, ON

Processing Core Member

Jan 2020 - Present

- Developing new features and testing plans for Object Tracking and HD Maps components
- Participating as a team in the SAE AutoDrive Challenge to create a fully autonomous vehicle

The Coala Static Analyzer Project

Remote

Mentor, Developer

May 2018 - Present

- Mentoring high school students participated in Google Code-in to better contribute to open source
- Worked on the Coala dependency management project and developed CI/CD plans for UNIX platforms

The FreeBSD Project

Remote

Committer

Sep 2017 - Present

- Leading the development of Electron ports and the Simplified Chinese Documentation Project
- Working with contributors worldwide to act on bug reports, bring in patches and promote FreeBSD