Guangyuan (Charlie) Yang

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Education

University of Waterloo   *Waterloo, ON*
Bachelor of Mathematics, Co-operative Program   *2016 - 2021*

Experience

Autodesk   *Toronto, ON / Remote*
Senior Software Engineer   *Apr 2023 - Present*

- Promoted on the Deployment Platform team, continued improving and transforming the **internal PaaS** offering using **Kubernetes** and Cloud Native technologies, setting standards and best practices
- Implemented **ArgoCD** and drastically cut maintenance for **SaltStack** or **Terraform**-managed manifests
- Deployed **OpenTelemetry** collectors and collaborated in a cross-team effort to migrate tracing
- Drove technical direction on the **AWS EC2** image update automation with **AWS SNS** and **AWS Lambda**
- Proposed and executed consecutive **Istio** upgrades from 1.13 -> 1.17, minimizing downtime
- Mentored interns, proactively checked in and provided guidance to ensure their success

Software Engineer II   *Jan 2022 - Apr 2023*

- Worked on the Deployment Platform team, responsible for managing the **AWS EKS** clusters, **Spinnaker** control planes, **observability** and internal **Python** services for the entire ACS organization
- Maintained and upgraded **Terraform** modules that provision **Kubernetes** and **Spinnaker** clusters
- Proposed and implemented **GPU** support in the existing AWS EKS clusters for ML workloads
- Proposed and executed upgrades to **AWS EKS** clusters from 1.21 -> 1.22
- Participated in an internal rotation program on the Systems Engineering team for 3 months

Software Engineering Intern   *Jan 2019 - Apr 2019*

- Helped build and maintain scalable and reliable **Kubernetes** clusters with **AWS EKS** and **Spinnaker**

Hudson River Trading   *New York, NY / Remote*
Software Engineering Intern, Systems   *Jan 2021 - Apr 2021*

- Designed and implemented an in-kernel NFS performance 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 Engineering   *Sep 2019 - Dec 2019*

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

Skills

Cloud Native	Kubernetes, OpenTelemetry, ArgoCD, Kustomize, Helm, Istio
Infrastructure	Terraform/Terragrunt, Saltstack, Linux, AWS, Datadog, Python, Bash

Certifications

2024	**Certified Kubernetes Application Developer (CKAD)**, The Linux Foundation
2023	**Certified Kubernetes Administrator (CKA)**, The Linux Foundation