

Charles Zhang

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Education

University of Waterloo

Sep 2017 - Apr 2022

- Bachelor of Computer Science, Major GPA: 93%

Skills

Languages: Go, Python, JavaScript (ES6+), TypeScript, Ruby, C, C++

Technologies: Node.js, React, Rails, MongoDB, MySQL, Memcached

Infrastructure: Docker, Kubernetes, Terraform, Ansible, AWS, Google Cloud, Datadog

Work Experience

Lyft

Sep 2021 - Present

Software Engineer Intern, Privacy Engineering

San Francisco, CA

- Designing and implementing a service in **Python** to ensure data privacy compliance in Lyft's datastores.

Riot Games

May 2021 - Aug 2021

Software Engineer Intern, Continuous Service Delivery

Los Angeles, CA

- Created **Terraform** modules to automatically provision **AWS EKS** clusters with **autoscaling** for Riot's build infrastructure, eliminating manual work and potential human error in each deployment.
- Composed **Ansible** playbooks and **Kubernetes** manifests to automatically migrate **Jenkins** build nodes from **Docker Swarm** to **Kubernetes**, improving service reliability and efficiency for **8000+** pipeline jobs.

Shopify

May 2020 - Aug 2020

Production Engineer Intern, Mobile Tooling

Ottawa, ON

- Designed and built a tool using **Ruby on Rails**, **MySQL**, and **Google Cloud Storage** that enables mobile developers to load different app versions in seconds, boosting development efficiency by **20x**.
- Improved metrics reporting and error logging in Shopify's **Mac mini infrastructure**, increasing visibility of usage data for MacOS images and iOS build errors in **CI pipelines**.

Wish

Sep 2019 - Dec 2019

Software Engineer Intern, Product Payments

San Francisco, CA

- Implemented credit card CVV verification using **Python** and **MongoDB**, decreasing cart dropoff rate by **20%** while preventing account takeover fraud for over **500 million users**.
- Utilized **Amazon SQS** to improve a scheduled payment service by queueing and executing transaction updates asynchronously, speeding up its runtime by **50%**.

League

Jan 2019 - Apr 2019

Full Stack Developer Intern, Integrations & Reporting

Toronto, ON

- Architected web services using **Go** and **MongoDB** to facilitate membership reporting for clients in **multi-billion dollar** companies, increasing efficiency for League's Customer Success Team.

ConsenSys

May 2018 - Aug 2018

Full Stack Developer Intern, Sobol

Kitchener, ON

- Implemented web APIs and UI components using **Node.js**, **React**, and **MongoDB** to calculate a project's progress from its objectives, allowing clients to better manage their projects and goals.

Research Experience

University of Waterloo, Undergraduate Research Assistant

Jan 2021 - Aug 2021

- Implemented algorithms using **Python** and **PyTorch** to remove backdoor attacks in neural networks.