Yuanzhe Shi

4B Computer Science @ University of Waterloo

@ y327shi@uwaterloo.ca　　🌐 yuanzheshi.com　　in yuanzheshi　　⊙ whimSYZ　　📞 (647) 507-9067

Experiences

Software Engineer `Current` 📅 Sep 2022 - Dec 2022
- Work for **Ford Pro Autonomous Vehicle Tolls team** using **Java** Spring boot and **React**.
- Delivered the Tolls service that manages tolls data and messages for fleets on **GCP** instances.
- Set up **PostgresQL** database with **Flyway** scripts and **JPA** API. Deployed the service on **Kubernetes**.
- Developed Vehicle Record table and bulk upload feature using **React**. Setup **SFTP** to transfer files.

AUTONOMIC Software Engineer 📅 Jan 2022 - Apr 2022
- Work with **Autonomic DnD team** on DevOps and CI/CD using **Terraform**, **ArgoCD**, **Concourse**, and **Tekton**.
- Delivered **Bakery**, an Au Tool to compare and contrast detailed progress on different envs and clusters.
- Build **Grafana** dashboard using data collected by Prometheus to monitor resources on GCP.
- Build **Docker images** for various language and tool supports. Pour **HomeBrew** packages for internal use.

eBay CCOE Cloud Engineer 📅 Sep 2020 - Apr 2021
- Worked for **eBay Cloud Console team**, an cloud platform for eBay developers.
- Participated delivering Cloud native experience with full-stack development in **React** and **Java**.
- Delivered **Storage Management** for Cloud Console that suggests storage solutions based on performance and OLAP/OLTP requests, and subsequently manages life cycle for the storage instances.
- Initiated and delivered dashboard for k8s clusters and az. Reduced **90%** of payload transferred.
- Developed and performed unit tests in **Mocha** and End-to-end testing in **Puppeteer** for **80%** coverage.

Projects

LightSearch ⊙ whimSYZ/lightSearch
- Full-text search developed using **Go**, optimized for **Markdown** docs supporting YAML front matter.
- Implements **TF-IDF**, Porter Stemming, and Levenshtein distance algorithm.

hugo-gallery-shortcode ⊙ whimSYZ/hugo-gallery-shortcode
- A Hugo shortcode to display a gallery of images using **HTML/CSS**, **jQuery**, and **Go**.
- Features various layouts such as square, waterfall, and mosaic, with various hover effects and lazyload.

Gear Knight ⊙ whimSYZ/GearKnight
- A 2D platformer game featuring pixel arts powered by **Godot Engine**. Release in **OSX**, **iOS** and **Andriod**.

Skills

Python　C/C++　bash　JavaScript　Go　Java　Swift　HTML/CSS　Kotlin　LaTeX

linux　git　k8s　Docker　Terraform　AWS/GCP　Grafana　React　Flask　PyTorch

Education

Bachelor of Computer Science (Business Specialization)
Combinatorics & Optimization Joint + Pure Mathematics minor

University of Waterloo 📅 Sept 2019 – June 2024