Howard Yang

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WORK EXPERIENCE

Tesla   Aug 2023 − Jan 2024
Software Engineer Intern   Austin TX, USA

- Automated manually scanning QR codes by designing and deploying a highly-performant **Golang** application to call Tesla factory APIs by ingesting data from a Kafka Topic that produces **26 million events per day**
- Reduced future AWS costs by **$30k/month** by analysing critical lambda functions, migrating cloud resources into Tesla data centers, and creating a deployment plan that ultimately resulted in **no downtime** during cut-over
- Saved **12 hours** of developer time per month by writing custom CI/CD Github Actions across 3 different repositories to run integration tests on pull requests and automatically upload the Docker image to Artifactory
- **Technologies**: Golang, Django REST, Kubernetes, Docker, Redis, ArgoCD, Kafka, PostgreSQL

Groupr   Oct 2022 − Mar 2023
Backend Lead   Remote

- Built a web app which gives users a Tinder-like UI to find group members for events such as hackathons
- Led the development team of 4 as the sole experienced backend engineer to write a **Django REST** API
- Deployed the application at hackathons allowing over **50** teams to be created from our matching algorithm
- **Technologies**: React, Typescript, Django REST

Hitachi - Thales   May 2022 − Dec 2022
Software Analyst Intern   Toronto ON, Canada

- Migrated a legacy software tool for validating railway designs created by engineers to a modern tech-stack
- Architected a custom **end-to-end testing** library and subsequently integrated it with the team's **Jenkins** CI/CD build pipeline, reducing manual regression testing time for QA by **90%**
- Boosted end-user productivity by closing over **30** UI feature tickets, using **VueJS** to create custom components
- **Technologies**: VueJS, ASP.NET, Jenkins, Docker, websockets, Playwright, Electron

Farmlink   Sep 2021 − Dec 2021
Software Developer Intern   Remote

- Contributed to the development of a full-stack ERP web application aimed at assisting farmers in managing their crops and resources
- Reduced request latency by **40%** on select queries by optimizing a database table using a cron script to routinely archive **10** million stale rows to preserve training data for our Machine Learning models
- Employed **web scraping** to aggregate country-border coordinates from dozens of government sources and insert them into our database, resulting in a comprehensive set of map data points for geofencing in our map components
- **Technologies**: VueJS, Django, MySQL, Selenium

PROJECTS

Light-Weight: Rendering Engine | *GitHub*   C++, OpenGL, GLSL, Imgui, GPU Programming
- Released an open-source application for rendering photo-realistic scenes using Monte-carlo techniques

Handwritten Digit Classifier   C, Neural Networks, Reinforcement Learning
- Wrote a neural network ML model as coursework to classify handwritten digits

EDUCATION

University of Toronto   Toronto, Canada
B.Sc. Computer Science; **GPA: 3.8/4.0**   *Sep 2020 − Apr 2025*

SKILLS

Languages: Python, Golang, JavaScript, TypeScript, Java, Scala, C, C++, , C#, Bash, SQL

Frameworks/Libraries: React, VueJS, Django, ASP.NET, GORM, Unity, Imgui

Technologies: Git, Jira, Jenkins, Docker, ArgoCD, Kubernetes, Helm, Atlas, PostgreSQL, MySQL, Redis