JI-OH KIM

Software Development / Product Management Intern

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EDUCATION

University of Toronto, Computer Engineering   Expected Graduation: **May 2023**

Major: Software Engineering | Minor: Engineering Business

Relevant Courses: Algorithms and Data Structures, Operating Systems, Applied Fundamentals of Machine Learning, Introduction to Databases, Software Communication & Design, Calculus I, II, III

EXPERIENCE

Engineering Store   June 2021 – Present

Fullstack Web Developer

- Implemented Shopify API to an e-commerce website and added features (Error pages, consignment tool, dynamic product pages, sitemap) using HTML/CSS and Django
- Migrated the web host from Digital Ocean to Plesk and integrated PostgreSQL database

Facebook x Major League Hacking   June 2021 – Aug 2021

Production (DevOps) Fellow

- Selected as one of 150 fellows (out of ~10,000 applicants)
- Developed a web app using Flask and maintained it using Nginx as reverse proxy in an AWS EC2 instance
- Implemented a CI/CD pipeline using GitHub Actions and containerized deployment using Docker

aUToronto, Self-Driving Car Team   Aug 2020 – Apr 2021

System Engineer

- Designed integrated simulation to test the vehicle's autonomic response ability to dynamic challenges
- Analyzed the scoreboard and developed test cases specifically on safety analysis and completed a Conceptual Design Specification report on Perception failure mode

EXTRACURRICULAR

University of Toronto Students' Union   Sept 2019 – Apr 2020

Finance Committee Member

- Elected to be one of 19 members of the First Year Council to serve over 8,000 First Year Students
- Analyzed and budgeted the FYC's spending as a Finance Committee member, and was recognized for developing a reliable and transparent financial strategic plan for future years

PROJECTS

Better Google Maps 🔗   April 2021

- Developed an interactive mapping software using OpenStreetMap API, C++ and GTK graphics library
- Designed rendering of geographical features inspired by Google Maps (buildings, subway, POI, etc.)
- Created an optimal data structure and autocomplete feature to improve searching time by 85%

SpotiME 🔗   Aug 2021

- Created a React/Flask web app that uses Spotify API and Machine Learning Emotion Detection model to recommend a playlist based on user's emotion and music taste
- Deployed using AWS EC2, NGINX and tested and monitored with GitHub Actions and cAdvisor

SKILLS

Languages: C/C++, Python, JavaScript, HTML/CSS, Verilog, ARM Assembly
Tools, System: Git, Linux/UNIX, Bash, Microsoft Office, AWS, MATLAB
Frameworks: React, Django, Flask, Bootstrap, Gatsby