Andrew Huang

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Skills

Languages: JavaScript, C++, C, Python
Tools: React, Flask, AWS, Node.js, MySQL, jQuery, SCSS, Nginx, Gunicorn, Selenium, Jest, Jira

Experience

IBM - *Front End Developer* May 2019 - August 2019

→ Implemented new features and components in company-wide UI-Toolkit with **React** and **SCSS** while following **TDD** principles for use in IBM Cognos Analytics
→ Rewrote snapshot tests into unit tests using **Jest** with **Enzyme**, reducing test duration by **30%**
→ Architectured and delivered a new theming system for IBM Cognos Analytics and spearheaded its adoption across multiple teams

OtoSim - *Full Stack Developer* May 2018 - Present

→ Developed web app OphthoSim Mobile using **JavaScript, Node.js, Express, jQuery** to train medical students for eye and ear exams by simulation on a mobile device
→ Parsed and imported information from medical documents in the filesystem for storage in **MySQL** database using Node.js fs module
→ OphthoSim has been sold for use in various medical schools in both the US and Canada and has been incorporated into the curriculum at the University of Toronto's medical program

Projects

Personal Blog June 2019

→ Created personal blog with **Flask** backend, **MySQL** database, and **jinja2** frontend to make a platform for posting interesting ideas and my short stories online
→ Hosted on **AWS EC2**, with **Nginx** (routing) and **Gunicorn** (static files) as the server
→ Implemented a **Cron Job** with a **Bash Script** using **Let's Encrypt** to periodically renew SSL certificate

MangaUncle June 2019

→ Scraped manga websites for ratings using **Selenium** and **BeautifulSoup** storing them in a **Postgres** database in order to normalize manga ratings across sites so readers can find new high-quality manga

EzGIS January 2019 – April 2019

→ Built a Geographic Information System (GIS) for different cities that displays features such as roads, parks and buildings using **C++** and the EZGL graphics library
→ Implemented A* algorithm to determine fastest routes between street intersections in under 100 ms
→ Employed Ant Colony and 2-Opt heuristics to return a good solution to the travelling salesman problem

Education

University of Toronto
Bachelor: Computer Engineering
Class of 2021: 2017 - present
GPA: 3.89/4.0
Percent Average: 90%

Awards

2019 - Dean's List
2018 - John M. Empey Scholarship
2017 - U of T Scholar
2017 - DELF B2 French

Interests

Arts - Piano, Portrait Drawing
Athletics - Badminton, Ping-Pong
Writing - See my blog