Andrew Huang

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Skills

Languages: JavaScript, C++, C, Python
Tools: React, Jest, Flask, AWS, Node.js, Express, MySQL, jQuery, Sass, Selenium, Jira, Git, Linux

Experience

SurveyMonkey - *Software Engineering Intern*   May 2020 - August 2020
• Built the front end foundation of the new SurveyMonkey login page with an emphasis on performance and SEO, resulting in a **96%** performance score and a **91%** SEO score on Google's Lighthouse test
• Integrated the login page with **Auth0** to allow users to log in to multiple SurveyMonkey apps with a single sign-on
• Wrote a **Python** script using the **hvac** library to automatically fetch and store new Hashicorp Vault tokens given a user's LDAP credentials, resulting in a smoother development workflow

IBM - *Front End Developer*   May 2019 - August 2019
• Implemented new features and components in company-wide UI-Toolkit with **React** and **Sass** while following **TDD** principles for use in IBM Cognos Analytics
• Architected and delivered a new theming system for IBM Cognos Analytics and spearheaded its adoption across multiple teams
• Rewrote snapshot tests into unit tests using **Jest** with **Enzyme**, reducing test duration by **30%**

OtoSim - *Full Stack Developer*   May 2018 - August 2019
• 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 universities worldwide and has been incorporated into the curriculum at the University of Toronto's medical program

Projects

Personal Blog : andrewyh.com   July 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

EzGIS   January 2019 – April 2019
• Built a Geographic Information System (GIS) for different cities 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: 3.84/4.0

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