

Andrew Huang

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Skills

Languages: JavaScript, Python, C++, C, Lua

Tools: React, Jest, Flask, AWS, Node.js, Express, MySQL, jQuery, Sass, Slate, Selenium, Jira, Git, Linux

Experience

SurveyMonkey - *Software Engineering Intern*

May 2021 - August 2021

- Revamped the documentation process for SurveyMonkey's Public API to adhere to OpenAPI Spec, resulting in a more complete, easily testable API specification
- Converted OpenAPI Spec yaml files to Slate-compatible markdown using Widdershins to dynamically generate human-readable documentation

Qlik - *Software Engineering Intern*

January 2021 - April 2021

- Implemented new registration flow for MyQlik using **React**, resulting in a smoother account creation process
- Coded various bug fixes and features for MyQlik, including support for Qlik's new academic program
- Verified code functionality with unit tests using the **React Testing Library**, integration tests with **Cypress**

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
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Projects

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
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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

Interests

Arts - Piano, Portrait Drawing
Athletics - Badminton, Ping-Pong