

# Andrew Huang

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## Experience

### SurveyMonkey - Software Engineer II

Sept 2022 - Present

- Provisioned and maintained the Web Access Firewall in AWS using Terraform in order to shield company resources from DDOS attacks, SQL injection, Cross-site scripting, and other web-based attacks, with over **10 million malicious requests blocked per day**
- Migrated SurveyMonkey's CSAM detection service into AWS Elastic Kubernetes Service (EKS), using ArgoCD and Helm, and Github Actions for CI/CD, **reducing hosting costs by 30%**
- Led engineering effort to automate the DSR privacy and GDPR regulation process by integrating with third-party provider Ethyca, reducing the time needed to process a DSR request from **10 hours to instant**
- Architected data ingestion pipeline to enqueue image metadata from AWS S3 to Kafka, using Python, Lambda on SQS event notifications, supporting the CSAM image scanning backbone which processes a **hundred thousand images per day**

### SurveyMonkey - Software Engineering Intern

May 2021 - August 2021

- Re-architected the documentation process for SurveyMonkey's Public API, paving the way for how future API documentation will be made using **OpenAPI Spec** to create 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** and **TypeScript**, resulting in a smoother account creation process for new users
- 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 of the new SurveyMonkey login page using React and integrated the login page with Auth0 to enable SSO for all SurveyMonkey apps
- Automated the fetching and storing of **Hashicorp Vault** tokens using **Python**, streamlining the experience of developers using Hashicorp Vault

### IBM - Software Engineering Intern

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 - Software Engineer

May 2018 - August 2019

- Developed web app OphthoSim Mobile using **Node.js**, Express, jQuery to train medical students for eye and ear exams by simulation on a mobile device
- Wrote a script to fetch information from medical documents in the filesystem for storage in **MySQL** database
- 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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## Education

University of Toronto  
Bsc. Computer Engineering 2021  
GPA: 3.9/4.0

## Skills

**Languages:** Python, JavaScript, C++, C

**Tools:** AWS, Kubernetes, ArgoCD, Helm, Docker, Github Actions, Kafka, Terraform, React, Node.js, MySQL