# Edward Huang

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## EDUCATION

**University of Michigan** (Ann Arbor, MI)                                                                           May 2022
B.S.E. Computer Science; Minor: Statistics                                                                       GPA: 3.74
- Michigan Hackers (iOS Lead), MHacks Core, Undergraduate Research Opportunities Program

## WORK EXPERIENCE

**Amazon Web Services**                                                                                        New York, NY
Software Development Engineer, Foreign Exchange                                          September 2022 – Present
- Developed a ruleset versioning system that dynamically updates rules to manage changes to application behavior
- Migrated long-term credentials to use regionalized ephemeral credentials, increasing the security and durability of the service
- Created the metrics, alarms, and graphs of the FX service
- Planned and executed the migration of manual to IaC managed infrastructure of an active production system while ensuring 0% downtime, which is crucial to the launch of the service in a new region

**Amazon Web Services**                                                                                          Seattle, WA
Software Development Engineer Intern, Payment Processing                                    May – August 2021
- Designed, implemented, and deployed to production a foreign exchange rate monitoring and alerting system to ensure updated rates are served to customers
- Led team design review meetings, evaluated technical tradeoffs between designs, and ensured exceptional code quality
- Utilized CDK to provision system infrastructure as code (IaC) for scalability to multiple regions globally
- Wrote integration and unit tests using mocking and dependency injection with Mockito and Google Guice achieving 88% code coverage

**Michigan Medicine**                                                                                         Ann Arbor, MI
Research Assistant                                                                                  October 2019 – April 2020
- Developed website served on Amazon Web Services displaying electrocardiograms (ECG) to improve accessibility for Michigan Medicine doctors to thousands of patient ECG records

**Wonders Information Company**                                                                           Shanghai, China
Full Stack Intern                                                                                            May – July 2019
- Implemented website registration functionality and construction project review system serving millions of users
- Identified, documented, and fixed bugs through testing of website and created mockups for new features

**RollOut Deliveries**                                                                                        Ann Arbor, MI
iOS Software Engineering Intern                                                               July – September 2018
- Achieved minimum viable product peer-to-peer food delivery iOS application in 12 weeks
- Designed and implemented Uber/Lyft-style map UI using Google Maps, online shopping flow, and facilitated implementation of transactions using the Stripe API

## SKILLS

**Languages:** C, C++, Java, Swift, HTML, CSS, JavaScript, SQL, Python
**Technologies:** Git, Django, Firebase, AWS, Bootstrap, Xcode, LaTeX, Flask, Heroku, PostgreSQL

## SPECIALIZED COURSEWORK

Operating Systems, Web Systems, Information Retrieval and Web Search, Database Systems, Natural Language Processing