Edward Huang

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EDUCATION

University of Michigan (Ann Arbor, MI)   Expected May 2022
B.S.E. Computer Science; Minor: Statistics   GPA: 3.71
- Michigan Hackers (iOS Lead), MHacks Core, Undergraduate Research Opportunities Program

WORK EXPERIENCE

Amazon   Seattle, WA
Software Development Engineer Intern, AWS Payment Processing   May – August 2021
- Designed, implemented, and deployed to production a foreign exchange rate monitoring system that optimizes operational efficiency to ensure updated rates are served to millions of customers
- Led team design review meetings, evaluated technical tradeoffs between designs, and ensured exceptional code quality
- Utilized CDK to provision system infrastructure as code for scalability of the system 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

PROJECT EXPERIENCE

ClassBop   May – August 2020
- Website for teachers to view feedback and trends regarding their performance by automating feedback collection
- Implemented queries to select data from PostgreSQL backend, created website page templates, and efficiently organized data from surveys using data structures and algorithms for teacher analytics dashboard
- Source code at www.bit.ly/ClassBop-repo and published at www.classbop.com

News Sentiment Analysis   May – August 2020
- Conceived, designed, and deployed Flask app analyzing the sentiment of text based on 1.6 million tweets and images scraped from the Web
- Created, trained, and optimized support vector machine (SVM) model, improving accuracy from 63.6% to 82.0%
- Source code at www.bit.ly/news-sentiment-repo and published at news-sentiment-web.herokuapp.com/home

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