Rishi Barad

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EDUCATION

UNIVERSITY OF MICHIGAN   **Ann Arbor, MI**

Majors: Computer Science, Neuroscience   December 2020

Relevant Coursework: GPA: 3.3/4.0

Data Structures and Algorithms, Computer Security, Computer Hardware, Computer Vision, Web Systems, Mobile App Development, Software Engineering

EXPERIENCE

Alloy Automation – San Francisco, CA

Software Engineer Intern   Jan 2021 - Present

- Developed full-stack services within eCommerce automation platform (Node.JS, Python, MongoDB)
- Improved Alloy's API extensibility to allow for automated eCommerce workflows utilized by over 35% of Alloy's user base
- Integrated numerous partnership APIs including Shopify and Klaviyo to expand product functionality
- Collaborated effectively across Product, QA, and Operations teams in fast-paced, Agile environment

QA Engineer Intern   Fall 2020

- Created and drove validation testing for production releases, resulting in 15% reduction of reported bugs
- Contributed to test pipeline triage rotation and ensured that pipeline failures are triaged promptly
- Developed and optimized unit, integration, and end-to-end automation tests

Michigan Medicine – Ann Arbor, MI   Fall 2016 – Summer 2019

Research Assistant

- Spearheaded pilot study examining impact of tDCS (low-current neuromodulation) on recovery from aphasia (auditory processing disorder).
- Presented at Harvard's National Collegiate Research Conference

PROJECTS

Optical Music Recognition (Python, NumPy, TensorFlow)

- Created app that converts image of sheet music to instrumental audio track utilizing image pre-processing, music symbol extraction via deep-learning model, and data post-processing to produce audio

Search Engine Replica (Python, Flask, Hadoop)

- Implemented Map Reduce programming model in Python to simulate distributed computing of big data
- Utilized threads, processes, and websockets to mimic concurrent communication between nodes

Market Genie (Python, AWS Lambda, NoSQL)

- Built Amazon Alexa Skill that helps investors get real-time stock prices and track watchlist performance

SKILLS

Programming: C/C++, Python, JavaScript, Java, Go, Swift, SQL, NoSQL, HTML5, CSS, Bash
Technologies: Node.JS, React.JS, REST, Flask, Jest, Hadoop, MongoDB, DynamoDB, Firebase, AWS, TCP/IP, Git

LEADERSHIP & ACTIVITIES

Delta Epsilon Mu

- Elected to serve as President for professional, co-ed student organization with 50+ members

Michigan Hackers (Swift, Firebase)

- Built backend for Fitness Tracker iOS app utilizing Swift along with Google's Firebase platform

Google Foobar (Python)

- Participated in Google's invitation-based challenge consisting of multiple levels of coding problems