Kason Kang

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Education

Undergraduate Student | **University of Michigan** | Ann Arbor, MI | September 2016 – May 2020 |
Computer Science Major | 3.61 GPA | Class of 2020
Relevant Coursework: Data Structures and Algorithms, Web Systems, Computer Security, Computer Organization, Discrete Math, Operating Systems

Work Experience

Software Development Engineer | Amazon (AWS) | Sunnyvale, CA | August 2020 – December 2022
- Continued working on AWS Honeycode team, a low-code no-code platform for creating applications
- Worked on backend team responsible for internal and external facing API's
- Worked on Open Authorization for our services, implemented and maintained several core API's that retrieved and manipulated data from our pods, worked on optimizing database to use MVCC, created metrics/alarms/dashboards, handled team and service-level operations

Software Development Engineer Intern | Amazon (AWS) | San Francisco, CA | June 2019 – August 2019
- Worked on AWS product called Honeycode pre GA launch
- Developed in React Native using Typescript and Redux
- Added UI features like swipe actions to inbox items and drop-down menus

Software Development Engineer Intern | Amazon | Seattle, WA | June 2018 – August 2018
- Worked on the Voice Intelligence team
- Created a program that outputs the timestamps of where speech exists in an audio clip using a ML model created by a ML Scientist on our team
- Project helped pinpoint voice which decreased the latency of their subtitle service by over 9%
- Used matplotlib to generate visualizations of the audio waveforms alongside the model prediction scores

Researcher | University of Michigan Men's Basketball | Ann Arbor, MI | March 2017 – March 2019
- Used Catapult tracking devices to track biometric data of the Michigan Men's Basketball players throughout games and practices
- Consulted with team trainers and monitored "Player Load" metric that measures the effort exerted by athletes
- Analyzed trends throughout the season and provided visualizations created using Tableau
- Created a calculator that predicts the amount of "Player Load" exerted by specific practice drills, which can be used by the head coach to optimize the intensities of his practices

Awards & Side Projects

HQ Trivia Bot | Individual Side Project | Ann Arbor, MI | December 2017
- Wrote a program in python that answers HQ Trivia (a mobile trivia game) questions in under 5 seconds, with an 85% success rate
- Ran Apple Automator to send screenshots of iPhone screen as standard input to python file
- Used Google Vision API to detect text in the image, translating them into strings
- Created a custom Google search with those strings and web scraped the results into a list
- Wrote an algorithm that counted the frequency of each word in the search result to determine which answer was best

Leadership

MCSP Peer Mentor | Ann Arbor, MI | August 2017 – May 2018
- Served as a mentor in the Michigan Community Scholars Program (Living Learning Community)
- Coordinated and lead events focused on social justice and community service
- Hosted dialogues regarding the status of campus climate and rising social issues

Technical Skills

- Professional experience in Java, Python, and Javascript (React/Redux)
- Non-professional experience in C++, C, SQL, Assembly
- Experience working with multiple AWS services like SageMaker, EC2, S3, Cloudwatch.
- Other Skills: Vim, Git, Flask, REST API's, Jest, Matplotlib, Jupyter, Command Line Tools (scp, ssh, etc.)