

RAM NATLA

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EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science, Minor in Business

April 2021

GPA: 3.96/4.00

Coursework: Data Structures and Algorithms, Web Systems, Software Engineering, Cryptology, Computer Organization, Foundations of Computer Science, Database Management Systems, Operating Systems

EMPLOYMENT

Microsoft

Seattle, WA

Software Engineering Intern

May 2020 - August 2020

- Processed and consolidated Application Usage data through a new compliant data pipeline using Spark in order to serve as a data processor for enterprise customers. Reduced big data processing time by roughly 50%
- Explored the use of a new statistical approach using heuristic methods to reduce orphan resolutions mappings. Investigations resulted in approximately 30% increase of usage data for most common applications

TD Ameritrade

Ann Arbor, MI

Software Engineering Intern

May 2019 - August 2019

- Collaborated with product owners to build a new marketing offer system on a RabbitMQ message based architecture in order to efficiently scale the offer system. Streamlined the offer management process by converting batch jobs to instantly triggered listeners, reducing the total execution time of an offer cycle from 2 hours to under 10 seconds
- Developed Java REST API endpoints consisting of message queue listeners and publishers to RabbitMQ exchanges

EECS 280: Programming and Introductory Data Structures

Ann Arbor, MI

Instructional Aide

Jan 2019 - Present

- Teach a weekly two-hour lab section reviewing lecture material, practicing concepts through sample problems, and assisting students. Serve as a peer mentor to advise students with their future academic and career pathways

LEADERSHIP

MPowered Entrepreneurship

Ann Arbor, MI

Director of Consulting

September 2018 - September 2019

- Pitched MPowered's consulting services to growing startups that need assistance managing their digital enterprises.
- Organized 9 consultants into specialized groups for a cloud infrastructure project, decreasing completion time by over a month. Created multiple Python API endpoints to process and deliver information from a DynamoDB database
- Developed a dynamic footer for StockX's home page using React.js in order to increase product hit rates and create efficiency in the communication process

Sigma Beta Rho Fraternity

Ann Arbor, MI

Director of Philanthropy & Academic Chair

September 2017 - Present

- Direct service events and fundraising initiatives to raise over \$1,000 for SOS Children's Villages and relief funds
- Conduct resume reviews, LinkedIn workshops, and maintain alumni connections to provide career guidance and opportunities to develop professionally for over 40 members

PROJECTS

Sentigo Web Application

Fall 2019

- Built a React.js and Python driven application that serves as a peer-to-peer alert system for college campus events
- Utilized the Google Natural Language API and Google Vision API to perform sentiment analysis on related Tweets and images for queried events. Maintained reported events and user contact info in a Firebase Realtime Database

Smart Brain Facial Recognition App

Summer 2018

- Utilized the Clarifai Predict API and React.js to create a facial detection website that identifies faces in given images
- Stored user login information in a PostgreSQL database securely using the BCrypt password hashing function
- Incorporated Node.js through Express to allow communication between the front-end and backend database

SKILLS

Languages and Frameworks: C++, Javascript, Java, Python, Scala, HTML5/CSS, C, React.js, Spark