

RAM NATLA

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science, Minor in Business

GPA: 3.96/4.00

Coursework: Cryptology, Computer Organization, Foundations of Computer Science, Data Structures and Algorithms

Ann Arbor, MI

April 2021

EMPLOYMENT

TD Ameritrade

Software Engineering Intern

Ann Arbor, MI

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 two hours to under ten seconds
- Developed Java REST API endpoints consisting of message queue listeners and publishers to RabbitMQ exchanges by utilizing the Swagger and Spring Boot frameworks
- Followed agile development methodology and participated in daily scrum meetings to receive quicker feedback

EECS 280: Programming and Introductory Data Structures

Instructional Aide

Ann Arbor, MI

Jan 2019 - Present

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

LEADERSHIP

MPowered Entrepreneurship

Director of Consulting

Ann Arbor, MI

September 2018 - Present

- Pitch MPowered's consulting services to growing startups and local organizations that need assistance managing their digital enterprises. Coordinate recruiting events and new member training activities
- Organized and managed nine consultants into specialized groups for a cloud infrastructure project, resulting in a faster completion time of over a month
- Created multiple 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

Director of Philanthropy & Academic Chair

Ann Arbor, MI

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

Hexagon Alexa Skill

Fall 2018

- Developed an Amazon Alexa skill that allows the user to interact with StockX's website through Amazon Web Services (AWS). Generated personalized recommendations based on the user's preferences and price range
- Configured the Alexa skill to trigger a Python written lambda function that employed the StockX API

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's 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

Piazza Classifier

Winter 2018

- Applied machine learning concepts and natural language processing to classify subject of posts on "Piazza" based on keywords in posts. Achieved an 87 percent accuracy after training on only one semester and class of data

SKILLS

Languages: C++, Javascript, Java, HTML5/CSS, C

Frameworks: React.js, Spring