Rahul Raja

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EDUCATION

Stony Brook University   Expected Graduation: May 2025
Bachelor of Science in Computer Science and Applied Math   Cumulative GPA: 3.81/4.00
Masters of Science in Computer Science
Relevant Courses: Data Structures, Algorithms, Systems Fundamentals, Operating Systems, Networks, Software Development, Machine Learning, Data Science

SKILLS

Languages: Java, JavaScript, Python, TypeScript, C, HTML/CSS, SQL, Assembly, SML
Frameworks: ReactJS, NextJS, NodeJS, EmberJS, Express, JUnit, Spring Boot, Flask, Jupyter Notebooks
Developer Tools: Git/GitHub, AWS, Postman, VS Code, IntelliJ/Eclipse, Heroku, Firebase, Jira
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
Certifications: AWS Certified Cloud Practitioner (June 2023)

PROFESSIONAL EXPERIENCE

Verisk Analytics   **Jersey City, NJ**
Software Engineer Intern   *June 2022 – August 2023*
- Implemented Lambda function using Maven framework to decompress AWS SQS messages and process the response to be saved in DynamoDB which helped account for 50% more information for total loss vehicles.
- Redesigned backend system for Foreclosure project in Java to consume both old and new JSON responses and created JUnit tests which increased coverage by over 80%, while also making respective enhancements in the frontend using EmberJS
- Developed S3 sync service to copy objects from various customer buckets to claimsearch bucket in Test and Sandbox environments and to populate metadata in DynamoDB

Stony Brook University   **Stony Brook, NY**
CS Teaching Assistant   *August 2021 – December 2022*
- Fall 2022: System Fundamentals 1 TA: course based on microarchitecture and systems along with programming assignments in Assembly
- Fall 2021: Object Oriented Programming TA: course based on introduction to OOP concepts along with programming in Java
- Led weekly recitation and programming labs for class size of 30 students and held weekly open office hours for total course size of 200 students

SaveAway   **New York, NY**
Web Developer Intern   *January 2021 - August 2021*
- Solved 30 tickets for features/bugs for an Ecommerce web application using Spring MVC framework, JavaScript, Elasticsearch, and Microsoft SQL Server which resulted in increase of new users by over 25%
- Created CI/CD pipeline using GitHub actions to deploy war file to acceptance and testing servers

PROJECTS

Personal Website: https://rr003.github.io/PersonalWebsite

Stockfluence
- Engineered full-stack application using MERN stack that analyzes the effect of tweets from influencers on both stock and crypto market
- Developed full REST API in NodeJS and Express for Twitter, stock, and database calls
- Deployed cronjobs on AWS Lambda and CloudWatch that runs daily to calculate short and long term change of tweets – currently analyzed over 10,000 tweets

Gerrymandering Analysis
- Developed full-stack web application using Spring Boot which serves a REST API and React as the frontend, along with MongoDB
- Implemented various algorithms, such as Optimal Transport and Hamming Distance, to cluster district plans together and generate normalized scores
- Application visualizes district plans on the map, provides various metric analysis, and other features for the user

AWARDS

Eagle Scout, Deans List, MW High School Top 25