

Rahul Raja

(845) 325-6955 | rahulraja.sbu@gmail.com | <https://www.linkedin.com/in/rahulrajasbu> | <https://github.com/RR003>

EDUCATION

Stony Brook University

Bachelor of Science in Computer Science and Applied Math

Expected Graduation: May 2024

Cumulative GPA: 3.81/4.00

Relevant Courses: Data Structures, Algorithms, Systems Fundamentals, Operating Systems, Networks, Software Engineering, Machine Learning, Data Science, Computational Geometry

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

- SWE intern for Summer 2022 and Summer 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