

Samuel Shulman

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Education

Yeshiva University, Yeshiva College, New York, NY

Bachelor of Science in Computer Science, Distributed Systems Track, 05/2025

GPA: 3.5

Course Work: Introduction to Computer Science, Linear Algebra, Data Structures, Math for CS, Algorithms, Computer Organization, Industrial Software Engineering

Skills

Programming: Java, Python, JavaScript, C, HTML, CSS

Frameworks: Junit, React, Node.js, Git, GitHub, Jira, Maven, Visual Studio Code, IntelliJ IDEA, AWS

Experience

Research Assistant, Katz School at Yeshiva University

Current position

- Learning about various types of attacks on Microservices in AWS EC2 instances
- Working in tandem with Dr. Sai Praveen Kadiyala, who is a post-doc fellow at the Katz School at Yeshiva University

Projects

Elite Managing - CRM, Yeshiva University Summer Project

- Built a feature for businesses to issue membership badges for customers, which gave the customer various perks to be redeemed and stored these badges in AWS S3 buckets
- Took advantage of AWS Cognito user pools to differentiate between Business accounts and Customer accounts which allowed the correct CRUD permissions to be allocated appropriately
- Stored Business, Customer, and Badge information in three separate DynamoDB tables which enabled the correct user information to be displayed on their profile page
- Built a microservice using an AWS Lambda function triggered by EventBridge to email customers once a month

Search Engine, Yeshiva University Semester Project

- Initially created an in-memory storage system by building a HashTable that implemented separated chaining to handle collisions
- To undo a previous action, I built a Stack that pops off either the most immediate action or will go through the Stack and pop a specified action
- For search functionality, I implemented a Trie where all documents are immediately placed to make searching fast and easy
- Created a BTree for a more advanced storage system that would write documents to disk if the memory limit was exceeded, which was tracked by implementing a min Heap to measure document usage

Automated Course Registration System(ImIn), Personal Project

- Created a system for students to gain admission to their desired classes by registering for them as soon as registration opens by the user providing some basic information then on submit writes all the information to a Dynamo DB table which then triggers an AWS Lambda function that runs the Puppeteer script
- Built the entire user interface and front-end using React and the Material UI library
- Utilized Stripe Javascript SDK for payment processing and Stripe webhooks to trigger AWS Cognito to authenticate users