Aneesh Maganti

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY **May 2024**
Bachelor of Science, Major in Computer Science **GPA: 3.70**
Relevant Courses: **Machine Learning, Software Engineering, Databases, Algorithms, Operating Systems**

SKILLS

Languages	**C++, Javascript, Python, Bash, C#, Java, Powershell, Go**
Frameworks/Libraries/OS	**SDL, Qt, React, Node.js, PostgreSQL, Docker, Windows, Unix**

EXPERIENCE

MarketFusion, *Software Engineering Intern* **July 2022 - Present**
• Revamped the login authentication system by implementing password strength checks and verification client-side via regex and server-side to ensure the security of the website.
• Rewrote React registration pages and user-creation process, sending a server request via the Axios library to update the internal MySQL database.

Corelink High-Speed Research Network, *Academic Researcher* **Sep 2021 - Present**
• Researched the Corelink network infrastructure and implemented a network packet splitter for UDP connections
• Coordinated students and assisted them with the management of their projects
• Researched Corelink's network architecture and RDMA (Remote Direct Memory Access)/InfiniBand protocol and ran memory tests to determine the protocol's effectiveness for NYU researchers

Monarc, Dallas, TX, *Software Engineering Intern* **Aug 2021 - Jan 2022**
• Devised error checks and boot logging to improve Seeker performance and enable remote debugging
• Applied MVVM principles to develop new UI/UX features to enhance the Seeker machine feature-set

PROJECTS

Chip8 Interpreter/Emulator **August 2022**
• Designed interpreter for Chip8 platform by emulating all 35 standard opcodes and its specifications (registers, memory, timers), allowing Chip8 programs to run on an x86 platform
• Wrote separate disassembler to obtain assembly instructions from program binary data, assisting with development
• Used SDL to write graphics renderer using SDL textures and handle user input

Alzheimer MRI Detection **May 2022**
• Developed classification machine learning algorithm to sort preprocessed set of Alzheimer MRI images.
• Tested using Sklearn library with three models - a logistic regression, support vector machine and convolutional neural network - with varying levels of regularization to determine which had the greatest accuracy

bkRoad - Amazon Lightsail Containers Hackathon **March 2022**
• Won 2nd place in the hackathon
• Wrote Next.js application that allowed users to discover books, learn details about them, and loan them.
• Handled connections to SQL Amazon DynamoDB and hosted on Amazon Lightsail

Interview Automation - HackNYU **February 2022**

- **A Next.js application to assist with interviewing candidates for the NYU Corelink team by providing scheduling, quizzing and management services**
- **Wrote React pages for the question page, admin creation page, and applicant information**
- **Handled authentication via Auth0 configuration of NYU SSO logon**

EXTRA-CURRICULAR ACTIVITIES

- **Rock Climbing Team - done multiple climbs and participated within the Student organization**
- **Poly Programming Team - participated in programming challenges and competitions**