

SAI MANUKONDA

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EDUCATION

Rutgers University • New Brunswick, NJ

Expected Graduation: May 2025

Bachelor of Science, Major - Computer Science, Minor - Mathematics

Major GPA: 3.6/4.0

- **Computer Science Coursework:** Data Structures, Computer Architecture, Systems Programming, Discrete Structures I – II, Design and Analysis of Algorithms, Operating Systems, Introduction to Artificial Intelligence
- **Mathematics Coursework:** Calculus I – IV, Linear Optimization, Intermediate Statistical Analysis, Introduction to Mathematical Reasoning

WORK EXPERIENCE

MathWorks – Natick, MA

May 2023 – August 2023

Software Engineer Intern

- Collaborated with the Industry Model Testing (IMT) team to design and implement a user-facing dashboard application using **React.js**, **Node.js** and **MySQL**
- Displayed visual charts showcasing comprehensive test data from diverse industry models in the dashboard, including the highly relevant domain of self-driving technology

Quiddity Infotech – Little Elm, TX

May 2022 – August 2022

Software Engineer Intern

- Developed an internal time tracking tool using **React.js** and **Node.js**, with **MongoDB** as the database
- Utilized **Docker** to containerize the code and dependencies, enabling easy deployment across environments
- Eliminated the need for external time tracking tools, saving the company over \$5000 in licensing fees per year
- Collaborated with a team of 5 by presenting daily findings and leading solution-focused discussions to overcome challenges

Code Ninjas – Princeton, NJ

September 2019 – January 2020

Coding Instructor

- Instructed 50+ students aged 7-14 in programming and robotics, fostering a challenging and collaborative learning environment
- Adapted curriculum to cover game and website development using **JavaScript**, as well as **IOS app development**

PROJECTS

Emaily – Node.JS, Express, React.JS, MongoDB

@Emaily

- Created a survey management system for companies and organizations to send out and view customer survey statistics
- Incorporated Google OAuth for secure authentication through Mongoose.js
- Integrated Stripe API for payment processing, with a 2-cent cost per email sent to the user/customer

Anime Central – Flask, BeautifulSoup, Python, HTML/CSS/JS

@Anime-Central

- Collected data on 3300 Anime titles from 1980 to 2021 using Wikipedia API, and stored information in a JSON file
- Organized the Anime titles into 10 genres, release year, and ratings, allowing users to view similar titles
- Implemented a cookie session to store the user's watch history and preferred Anime genres
- Built a recommendation system based on four metrics, including recently watched Anime, most liked genre, release year, and production studio

Safe Search – Flask, HTML/CSS/JS, Bootstrap, Google Cloud

@Safe-Search

- Developed a tool specifically to address the Covid pandemic, to determine safe times to visit a location
- Utilized Google Places API to gather traffic data and information about the location entered by the user
- Analyzed traffic data to create a list of safe time slots throughout the day and displayed to the user

Mirror Dashboard – Python, HTML, google-cloud, raspberry-pi

@MirrorDashboard

- Designed a solution to keep users updated on current events, even with limited network connectivity
- Monitored internet access and periodically updated information from a Google Cloud Compute Engine
- Extracted important content including first aid, weather, and breaking news from sources such as CNN
- Automatically redirected users to the information site when connected to the Raspberry Pi Wi-Fi hotspot

EXTRA CURRICULAR ACTIVITIES

Rutgers University Mobile Application Development Club

January 2022 – May 2022

Android Developer - Incubator Program

- Worked in a collaborative environment to learn android development
- Built an android app using **Java** and **Kotlin** that makes it easier for students to find places to eat on campus
- Presided over weekly team meetings and delegated work to team members

SKILLS

- **Programming languages:** Python, Java, R, HTML/CSS, JavaScript, MATLAB, C,C++, MySQL
- **Technologies/Frameworks:** React.JS, Node.JS, MongoDB, Pandas, NumPy, Matplotlib, Flask, Bootstrap