

Varun Gangavarapu

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EDUCATION

Rutgers University • B.S Computer Science • Minor in Quantitative Finance **Expected Graduation: 2025**

Coursework: Data Structures and Algorithms, Computer Architecture, Calculus 1 & 2, Discrete Mathematics 1 & 2

EXPERIENCE

Amneal Pharmaceuticals

Software Engineering Intern

June 2023 – August 2023 • Bridgewater, NJ

- Migrated 100,000s of data points from AWS data lake to modify a visualization layer of the supply chain pipeline to optimize inventory efficiency by collaborating with cross-functional teams to understand business requirements and deliver effective data visualization solutions.
- Organized AI initiative with Executive management by implementing statistical models such as ARIMA and Time Series Regression using numerous APIs in Python to greatly improve demand forecasting compared to historical predictions. Contacted billion dollar companies in an effort to integrate more advanced AI driven insights.
- Leveraged Python to help create an automated script that intelligently identified and terminated unnecessary Amazon EC2 server instances, leading to a substantial reduction in wastage and operational AWS costs by 12% from previous month.

Mercantile Systems Inc.

Software Engineering Intern

September 2023 – Current • Remote

- Developed a full-stack application that enabled users to intuitively select 1,000s of data points from AWS S3 through a frontend interface using HTML, CSS, Javascript, Flask, and Docker.
- Implemented 8 machine learning and statistical algorithms with Python using TensorFlow and Pandas. Leveraged historical data, achieving a 8% -13% improvement in prediction accuracy compared to existing methods.
- Utilized PowerBi to craft comprehensive reports, translating complex predictions and statistical outputs into digestible insights. Delivered 4 distinct reports, facilitating better decision-making for employees.

PROJECTS

Course Reveal

Founder and Full-Stack Developer

September 2023 – In Progress

- Implemented a feature-rich platform that allows 100s of students to view their current and past classmates, fostering a sense of community and collaboration within the university.
- Integrated social networking functionalities with external APIs to facilitate connections with relevant tutoring and academic services based on individual course data, improving academic support and success.
- Utilized technologies such as React, TypeScript, SQL, GraphQL, and numerous AWS services to create a robust and scalable web application.

Sudoku Royale

Founder and Full-Stack Developer

August 2023 – September 2023

- Launched a multiplayer Sudoku game with a competitive element, incorporating accuracy points and trap purchases to enhance gameplay.
- Developed a responsive website using Vanilla Typescript/Javascript, HTML, CSS, and Node.js, optimizing performance and user experience across various devices and browsers.
- Integrated real-time multiplayer functionality with Socket.io, enabling smooth and interactive gameplay experiences for multiple users through a communication system with an Express server.

SKILLS

Languages: Java, JavaScript, TypeScript, Python, HTML, CSS, GO, C++, C#

Frameworks: React, React Native, Node.js, SQL, Socket.io, Bootstrap, Express, Rest

Tools: Amazon Web Services, Postman, Linux, Git, Docker, Microsoft Azure, PowerBI

Certifications and Awards: AWS Cloud Practitioner, United States of America Computing Olympiad Bronze Medalist

Soft Skills: Leadership, Innovation, Curiosity, Open Mindedness, Communication, Accountability