Saniya Savla

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Education

Georgia Institute of Technology | Atlanta, GA *Expected Graduation: May 2025*
Bachelor of Science in Computer Science, GPA: 4.00

Experience

Vantage Risk *June – August 2022*
Software Engineer Intern Remote

- Collaboratively remodeled a critical deal analysis application by encrypting 30+ exposed secrets within the codebase and stabilizing the application on multiple VMs.
- Developed a dynamic React Dashboard which displays license usage information across 8 developer tools.
- Created a Python function app fronted by a HTTP endpoint to fetch license usage information from API calls
- Configured a PostgreSQL database to store immutable API information such as the total licenses available.
- Hosted frontend and backend of React Dashboard on Azure for Software Engineering teams to use, yielding a 30% increase in efficiency.

Johns Hopkins Applied Physics Laboratory – *Space Exploration Sector* *October 2021 – May 2022*
ASPIRE Intern Laurel, MD

- Built a graphical user interface with Python which configures, builds, and runs a tool that simulates missile defense intercepts through the comparison of light curves based on different specifications.
- Implemented feature to load existing radiometric signature analysis files to allow researchers to edit configurations, view output files, and rerun the simulation.
- Assisted in the creation of Python ROS communication nodes which send signals to help automate lunar rover travel.

Projects

TravelHaven | *React, JavaScript, CSS*

- Ranked 2nd place in Coding & Programming at 2022 Maryland Future Business Leaders of America contest.
- Engineered travel application with React and TravelAdvisor API which allows a user to find a tourist attraction or restaurant based on different parameters such as rating, availability, and price.

Machine Learning Chatbot | *Python, PyTorch*

- Devised an AI chatbot aimed for providing customer service to businesses struggling during COVID-19.
- Tokenized consumer data for simplification and detected patterns between each input to extract the best response (from a python dictionary of possible outputs) to the consumer's request with an accuracy rate of 82%.

CryptoTrack | *Java, XML*

- Produced an android application that allows a user to find the real-time rate of a specific cryptocurrency from a list of 50+ digital currencies.

Organizations

Yellow Jackets Space Program *September 2022 – Present*
Avionics Software Developer

- Improving the current mission control application by transitioning from a Linux application written in C++ to a more modern stack using Tauri.
- Creating additional control interfaces with Grafana to present data by linking data sources from the backend server.

Awards

2019 Regional Future Business Leaders of America (FBLA) Contest – 1st place in Information Technology.
2021 Maryland Future Business Leaders of America (FBLA) Contest– 2nd place in Cybersecurity.
2020 University of Maryland Hackathon – Worked in a team of four and placed in the top 10%.

Skills

Programming Languages: Java, Python, JavaScript, C++, Swift, MATLAB
Technologies: Docker, Django, Postgres, Jenkins, MongoDB, GitHub, Azure, TensorFlow, React, Tauri, Node.js, Grafana
Concepts: Data Structures & Algorithms, Object-Oriented Design, Machine Learning, Cloud Computing, Cybersecurity