Saniya Savla

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
B.S. in Computer Science, GPA: 4.00 (Concentrations: Intelligence & Info Internetworks) — *Expected: May 2025*

EXPERIENCE

Vantage Risk — June 2022 – August 2022
Software Engineer Intern — *Remote*
- Collaboratively remodeled a critical deal analysis application by encrypting 30+ exposed secrets within the code base and stabilizing the application on multiple virtual machines.
- Developed a dynamic React Dashboard which displays license usage information across eight 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.
- Yielded a 30% increase in efficiency by hosting the front end and back end of React Dashboard on Azure for Software Engineering teams to use.

Johns Hopkins University Applied Physics Laboratory — 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.
- Increased productivity by 20% by implementing a feature to load existing radiometric signature analysis files to allow researchers to edit configurations, view output files, and rerun the simulation.
- Assisted in creating Python ROS communication nodes which send signals to help automate lunar rover travel.

PROJECTS

CryptoTrack | *Java, XML* — September 2022
- 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.

TravelHaven | *React, JavaScript, CSS* — December 2021 – January 2022
- 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* — December 2019 – February 2020
- 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%.

ORGANIZATIONS

Yellow Jackets Space Program — September 2022 – Present
Avionics Software Developer — *Atlanta, GA*
- 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 streams from backend servers.

TECHNICAL SKILLS

Languages: Java, Python, HTML/CSS, SQL, JavaScript, C#, Swift, C++, MATLAB
Technologies: GitHub, Azure, React, AWS, Node.js, Docker, Django, Jenkins, Postman, MongoDB, TensorFlow
Concepts: Data Structures & Algorithms, Object-Oriented Design, Machine Learning, Cloud Computing, Cybersecurity

AWARDS

2nd place in Cybersecurity – Maryland Future Business Leaders of America Contest — 2021
Top 10% – University of Maryland Hackathon — 2020
1st place in Information Technology – Regional Future Business Leaders of America Contest — 2019