Sathvik Andhavarapu

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Education

University of Maryland, College Park, Maryland

Bachelor of Science

GPA: 4.00 Expected May 2027

Double Degree: Computer Science + Economics

- Full Banneker/Key Scholar: Most prestigious merit scholarship offered to just over 0.25% of applicants
- Advanced Cybersecurity Experience for Students (ACES): Most prestigious STEM Living-Learning Program for incoming freshman at the University of Maryland College Park
- Coursework: Object-Oriented Programming I & II, Foundations in Cybersecurity I, Linear Algebra, Applied Probability and Statistics I & II, Introduction to Computer Systems, Discrete Structures

Extracurricular Activities

U.S. News - Full-Stack Software Engineer

Aug. 2024 - Present

Collaboration with App Development Club, 5% of applicants were accepted

- Developing a user-friendly data visualization tool by leveraging the U.S. News' internal API and React.js
- Developing backend features, using Flask, for data validation and QA functionality, and implementing heuristics to flag data anomalies for review

Amazon Project Kuiper - Software Engineer

Jan. 2024 - May 2024

Collaboration with App Development Club, 10% of applicants were accepted

- Developed a distributed ledger-based game theory application to analyze interactions between spacecraft operators and independent space situational awareness sensor networks during high-risk conjunction events
- Performed cost analyses to evaluate operator decisions during conjunction events, and provided recommendations to operators that optimized their decision making process based on game theory strategies

App Development Club Bootcamp

Sep. 2023 - Dec. 2023

15% of applicants were accepted

- Learned/implemented HTML, CSS, JavaScript, React, Django, and PostgreSQL in personal portfolio website
- Participated in workshops focused on artificial intelligence, machine learning, and web security hosted by sponsor companies such as Amazon and General Dynamics

Proiects

Cybersecurity Honeypot Project

- Developed a honeypot system in order to study how different types of customized SSH banners influence the the duration an attacker stays connected and the types of commands executed within an SSH session
- Utilized bash scripts to automate container deployment, configured NAT and firewall rules, and integrated Man-in-the-Middle in order to log attacker commands and calculate the duration of their stay

Fantasy Football Platform Web Application

- Developing a custom full stack web application using React and Spring Boot for a fantasy football platform
- Designing and managing a PostgreSQL database, in order to create and maintain relationships between potentially hundreds of users and other entities, such as leagues, teams, and players
- Implemented JSON Web Tokens in order to create a secure user base, as well as secure API endpoints
- Created Python scripts using BeautifulSoup and Pandas for web scraping NFL player data

Skills

Technologies: Java, Unix/Linux, Git, Github, Python, HTML, CSS, JavaScript, TypeScript, C Programming, React, Django, Flask, Spring Boot, PostgreSQL, MATLAB, Bash, FastAPI, Next. is, Excel, R Programming