Sam Fredrick

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INTRODUCTION

Highly motivated Computer Science undergraduate with a passion for crafting innovative software solutions. Proficient in algorithm development, web application creation, and dedicated to exploring new technologies to enhance team skillsets. Demonstrated track record of improving processing speed, data accuracy, and user engagement while effectively collaborating with cross-functional teams.

EDUCATION

SRM Institute of Science and Technology   June 2022-May 2026
B.Tech Computer Science with specialization in Cyber Security   *GPA: 9.67/10.00*

Kamala Niketan Montessori School   May 2022
CBSE, Higher Secondary

SKILLS

Tech Stack: Python, C, Java, JavaScript, HTML , CSS , SQL , Django

Courses Work: Object Oriented Programming, Operating Systems, Computer Organization and Architecture, Data Structures and Algorithms, Artificial Intelligence, Calculus, Probability and Queueing Theory

Tools: Git, Github, VS Code, Figma, MS Office

Certifications: NPTEL Certification in JAVA and COA, AWS Certification in Machine Learning, Coursera Certification in Supervised Machine Learning: Regression and Classification

PROJECTS

File-Xplorer | *HTML, CSS, Javascript, Python, Django, MySQL*   Oct 2023 – Dec 2023
- Developed a full-stack web application for remote File Modifications to display systems properties using Operating System
- Integrated Operating System functionalities with Django framework to enhance user experience

Intelliwatch | *Python, Django, WebSocket, MySQL*   Dec 2023
- Designed and implemented a centralized security monitoring system for multiple systems within an organization
- Real-time monitoring of system data including CPU and RAM usage, antivirus and firewall status, running processes, USB devices, network connections, and installed software
- Implemented WebSocket communication for real-time updates from monitored systems
- Configurable settings for notifications and system monitoring preferences

EXPERIENCE

1STOP.AI | *Web Development Front-end Intern*   Aug 2023 – Sep 2023
Collaborated with an experienced industrial mentor to make web projects

Data Science Community SRM | *Technical Member*   Oct 2023 – Present
Collaborating with peers to complete tasks and projects effectively.

PUBLICATIONS

Cyber Threat Monitoring and Incident Response with IntelliWatch SIEM | *IEEE*   Jan 2024
Comprehensive security monitoring application designed to address zero-day malware threats and strengthen enterprise security posture