Mridula Thulasiraman

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https://github.com/thulasiramanmt

PROFESSIONAL SUMMARY

Dedicated Software Engineer with a passion for cybersecurity. Committed to continuous learning, collaboration, and professional growth.

EDUCATION

Virginia Polytechnic Institute and State University, BS in Computer Science   08/2023 - Present
- **Coursework:** Software Design and Data Structures, Problem Solving in CS, Computer Organization

EXPERIENCE

Software Engineer Intern, Obscurity Labs   07/2024 - Present
- Utilized RTL-SDR and SDR++ to intercept and capture telemetry signals from drones.
- Used GNU Radio and PyMavLink to transform the captured signals into raw binary data.
- *Contact: Alexander Rymdeko-Harvey - a.rymdekoharvey@obscuritylabs.com*

Software Engineer Intern, Obscurity Labs   06/2023 - 08/2023
- Developed a Python application for cataloging file metadata across Windows VMs in a Proxmox environment.
- Designed a user-friendly interface using FastAPI and Jinja for secure uploading of ISO files and file hashes, focusing on enhancing data integrity and security.
- *Contact: Tory Clasen - t.clasen@obscuritylabs.com*

Data Analyst Intern, Schemata Labs   03/2023 - 06/2023
- Used BeautifulSoup to parse key information from an HTML website.

ACTIVITIES/PROJECT

Meta CTF with CCI
- Won first place competing in OSINT, cryptography, and forensic challenges.
- Tools Used: C++, MFC

AFA CyberPatriot XV
- Detected and identified vulnerabilities while hardening a server and making it more secure, using different tools and techniques.

Academies of Loudoun Hackathon
- Founded and organized the CTF and cybersecurity workshop at the Academies of Loudoun Hackathon.

CERTIFICATIONS

CompTIA A+ (Issued by : CompTIA)

ORGANIZATION

Member, Hypatia LLC   08/2023 - 05/2024
- Engaged in Engineering LLC at Virginia Tech dedicated to fostering collaboration and innovation

Account Manager, GRE Study Group   08/2023 - Present
- Managed club accounts and organized activities for members pursuing or intending to pursue a master's degree after their undergraduate studies.

SKILLS

Languages: Java, HTML/CSS, Python, JavaScript, C#, C++, LaTex
Software: FastAPI, Jinja2, MAVLink, GitHub, GNU Radio, RTL_SDR