

SOWMYASHREE BEVUR MANDYA VENKATESH

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EDUCATION

Northeastern University, Boston, MA
Master of Science in Cybersecurity Jan 2021-(Expected Dec 2022)
GPA: 4

Visvesvaraya Technological University, Bangalore, India
Bachelor of Engineering in Computer Science And Engineering Aug 2015-Aug 2019
GPA: 3.8

SKILLS

Languages: Python, C, C++, Rust, Java, PHP, SQL, NS, HTML, CSS, JavaScript, Assembly
Operating Systems: Linux, Windows, Kali Linux, Android
Other Technologies: Ncrack, AWS, Burpsuite, ZAP, John the ripper, Wireshark, Nmap, Nessus, MS Suite, Git, Losant

PROFESSIONAL EXPERIENCE

Web Developer Intern – Celestial V Solutions, Bangalore. Jan 2019-Feb 2019

- Designed and architected various modules of the “Student Fee System” such as student information, payment details and payment status using **Java Servlets**
- Worked and provided enhancements for **SSO, Security** and **JWT** modules
- Developed data models and effective **MySQL** queries to store, retrieve and display student fee information in 0.5 seconds
- Designed and developed the front-end dashboards and interfaces using **HTML, CSS, Ajax, and jQuery**
- Performed error-checking and accuracy checks to make sure software projects were correct, resolved errors that were found

PROJECTS

AWS Cloud security

- Deployed a **Flask** application to **Amazon Ec2 Linux** servers using automated **Cloud Formation** scripts
- Performed **Cloud Network Segmentation** and introduced security using **Firewalls**
- Enabled **IAM** access to restrict users and developed scripts for cloud **Auditing** using **Cloud Custodian**

Secure Smart Garden

- Architected a highly available and secure smart garden to control humidity and temperature
- Developed virtual sensors using **Python** scripts and **REST APIs**
- Designed a communication pipeline for **Losant** brokers using **MQTT** protocol over **SSL/TLS**
- Created **Losant** workflows and dashboards to automate and monitor the system

System and Database hardening

- Configured **Linux, firewall** rules to harden the database system
- Implemented database privilege with **least access policy** and **encryption** of existing and future data inserted in **MySQL**

3D drawing with augmented reality

- Lead a team of 4, designed and architected a **secure** application where users can annotate objects in the world in real time
- Developed an **android** application using **Google ARcore** and **unity 3D**
- Implemented features such as session management, motion tracking and environmental understanding

CERTIFICATIONS AND PUBLICATIONS

- “Introduction to Cyber-attacks”, NYU Tandon School of Engineering
- “Complete Ethical Hacking Course”, Udemy
- “3D Drawing with Augmented Reality” IRJET- Volume:06, Issue: 06

CONFERENCES AND CLUBS

- Attendee of vGrace Hopper Celebrations 2021
- Member of Women in Cybersecurity (WiCys)
- Member of the Graduate Women Coders and NU Security Club at Northeastern University