

# 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