Srushti Visweswaraiah

Master's in Computer Science | AI & Software Development | Teaching Assistant at FIU

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SKILLS & TOOLS

Languages: C, C++, Python, JavaScript, HTML, CSS   **Databases:** MySQL, MongoDB   **Frameworks:** React, Node.js, Express, OpenCV, YOLOv3, PHP   **Tools and Skills:** Git, Jupyter Notebook, VS Code, Postman, Agile/Scrum

EDUCATION

Florida International University   **2024-2026 (Exp)**

MS, Computer Science

Relevant Coursework: Intro to AI, Advanced AI/ML Techniques for DF, Intro to Cryptography, Data mining, Neural Networks

Siddaganga Institute of Technology   **2019-2023**

BE, Computer Science and Engineering

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, AI, ML Technologies, Software Engineering, Theory of Computation

PROFESSIONAL EXPERIENCE

Aptean India - *Associate Software Developer*   **Mar 2023 - July 2024**

- **Identified and fixed software bugs**, ensuring system reliability.
- **Developed 4 new features** based on business requirements within **an Agile framework.**
- Operated within a large established codebase to **review and fix system issues.**
- Gained hands-on experience across **frontend, API, and backend systems.**
- **Collaborated with product managers** to refine requirements, **improving sprint delivery speed by 10%**.

ACADEMIC & RESEARCH EXPERIENCE

Florida International University - *Teaching Assistant*   **Aug 2024 - Present**

- **Assisted** in teaching and labs for *Artificial Intelligence* and *Operating Systems* courses with 100+ students
- **Mentored** students on **AI model implementation and optimization** to improve understanding and performance.
- **Collaborated** with faculty to enhance lab materials, emphasizing applied **AI concepts and model evaluation** practices.

PROJECTS

Medical Report Generator - *Capstone Project*   **July 2023**

- **Built** an AI-driven encoder–decoder model to generate **automated medical reports** from X-ray images, reducing manual report generation time.
- **Evaluated** model performance using image-text matching metrics to validate viability for clinical settings.
- **Presented** findings on leveraging AI to improve diagnostic workflows in radiology.
  (Python, Deep Learning, OpenCV)

Social Distancing Monitor   **July 2022**

- **Developed** a real-time monitoring system using **YOLOv3** to detect and measure pedestrian proximity from live camera feeds.
- **Implemented** a pixel-to-distance estimation method to identify violation thresholds, enabling visual alerts for unsafe distances.
- **Showcased** application potential in **public safety and crowd analytics** systems.
  (Python, OpenCV, YOLOv3, NumPy, Matplotlib)

Secure Messaging System   **Aug 2024**

- **Engineered** a secure chat platform implementing **AES and RSA encryption** with **JWT authentication**, ensuring complete data confidentiality.
- **Integrated** WebSocket-based group messaging and session management, achieving seamless real-time communication.
- **Developed** an intuitive React-based UI, prioritizing privacy, usability, and scalability.
  (React, Node.js, Express, AES, RSA, JWT, MongoDB, WebSockets)