Harshika J

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Education

Master of Science in Computer Science   **December 2025**
Georgia State University – **GPA: 3.87/4.0**   Atlanta, GA

Courses Learnt: Courses Learnt: Database Systems, Mobile Computing, Privacy-Aware Computing, Web Programming, Secure and Private AI, Network Security

Bachelor of Technology in Computer Science   **May 2024**
SRM Institute of Science and Technology - **GPA: 3.93/4.0**   Chennai, India

Courses Learnt: Programming for problem-solving, Data structures, and algorithms, OOPS, Design and analysis of algorithms, Software engineering, OS, Data mining and analytics, DBMS, Mathematics, Statistics, Artificial Intelligence

Projects / Research papers

Advanced Library Management System   **2024**
- Designed and implemented an intuitive and efficient graphical user interface (GUI) to streamline complex library operations.
- Utilized MySQL for database management, Python for backend development, React.js and CSS for frontend design, and Postman for API testing.

A Comparative Analysis of Blockchain-based Decentralized Identity Solutions for Academic Credit Recognition   **2024**
- Created a blockchain-based validation system, reducing academic credential forgery, and integrating digital identity with the Academic Credit Bank (ABC) system, enhancing data security.
- Presented findings at the NCIET 2024 Conference.

Generic-Driven Vehicle Object Detection using Certainty Aware Learning   **2024**
- Implemented a system that improved autonomous vehicle object detection accuracy in adverse weather conditions using deep learning algorithms.
- Contributed to the development of more reliable autonomous driving technologies.

Analyzing the Accuracy of Detecting Phishing Websites Using Ensemble Methods in Machine Learning   **2023**
- Evaluated and integrated multiple machine learning models to determine which algorithm provides the best accuracy in detecting phishing websites.
- Presented findings at the ICAIS 2023 Conference, published in IEEE.

Detecting Illegal Ship Activity through Deep Learning Wave Pattern Analysis in Maritime Surveillance   **2023**
- Developed a system that improved monitoring accuracy in restricted marine areas.
- Enhanced national security efforts by detecting illegal activities through wave pattern analysis.

E-Commerce Website   **2022**
- Developed a user-friendly platform for purchasing laptops and accessories, ensuring smooth operation using HTML and CSS.

Travel Management System   **2022**
- Created a comprehensive website to provide information about travel destinations, enhancing the tourist experience using HTML and CSS.

Certifications

Palo Alto Cloud Security Fundamentals	Palo Alto Network Security Fundamentals
Microsoft Artificial Intelligence-900 Study group	R language by SRM University
Palo Alto Cyber Security Fundamentals	Data Structures with Python by NPTEL
Microsoft AZ-900 Azure Fundamentals	Data Science by Pantech E-Learning

Technical Skills: C, C++, Python, MySQL, R, HTML, AutoCAD, CSS, React.js, Power BI, Postman API
Soft Skills: Problem-solving, Team Collaboration, Leadership Qualities, Communication
Leadership Skills: Demonstrated leadership at SRM University by organizing events and guiding volunteers   **2022**