VEERA VENKATA GANESH NURUKURTHI

veeravenkataganesh3444@gmail.com | +1 703-(618)-6767 | LinkedIn | GitHub | Virginia, VA

EDUCATION

Master's in computer science | George Mason University, VA, USA **Aug 2023 - May 2025**

Bachelor's in computer science engineering | SRM Institute of Science and Technology, INDIA.   **June 2019 - May 2023**

SKILLS

Programming Languages: C, C++, Python, Java, HTML5, CSS, JavaScript, sql.

Tools & Software: Linux, MacOS, Windows, VS Code, Tableau, PowerBI

Frameworks, Platform & Databases: AWS (Cloud deployment), Mongo DB, Oracle.

Knowledge Areas: Data Structures and Algorithms, Machine Learning, AI, Web Development.

EXPERIENCE

Web Developer Intern | Evouge Solutions, Chennai   **March 2022 – June 2022**

• Conducted QA testing and contributed to front-end development.

• Collaborated with team members for feature completion.

Data Scientist Intern | Centurion Software Solutions, Chennai   **March 2022 – June 2022**

• Conducted metadata and data analysis.

• Preprocessed data and worked with AWS and databases.

PROJECTS

Lane Line Detection – Developer   **Fall 2021**

• Implemented a computer vision system using OpenCV to detect lane lines from vehicle dashcam footage.

• Applied Canny Edge Detection and Hough Transform to highlight lanes on California highway videos.

Student Database Management System – Developer   **Fall 2021**

• Developed a Django-based student management portal with role-based login, profile editing, and document uploads.

• Applied ER modeling, normalization, and implemented secure CRUD operations with search and bulk CSV import.

Online Doctor Consultancy – Developer   **Spring 2022**

• Developed a web-based healthcare portal providing instant access to primary consultation and emergency triage services.

• Designed and implemented a responsive UI using HTML, CSS, and JavaScript for a streamlined patient experience.

Diabetes Prediction Using Machine Learning – Developer   **Fall 2022**

• Trained a classification model on the Pima Indians Diabetes Dataset to predict diabetic outcomes.

• Integrated a web-based input form to feed patient data into the model for real-time predictions.

Deep Learning on Traffic Prediction – Developer   **Spring 2023**

• Built a traffic forecasting system using deep learning models like STGCN, CNN+RNN, and Voting Classifier with Flask and SQLite.

• Designed a full-stack UI with user login, prediction interface, and achieved 100% accuracy using ensemble learning.

Instant Market Online Store – Developer   **Spring 2024**

• Built an online eCommerce platform using HTML, Bootstrap, JavaScript.

• Designed UI using usability and HCI metrics.

Academic Advisor Application – Developer   **Spring 2024**

• Developed a semester planning and advisor communication system.

• Focused on ARIA tags, semantic HTML, and accessibility standards.

UI Code Assistant – Developer   **Spring 2024**

• Created an AI tool for dynamic HTML/JS component generation.

• Applied MVC structure and used learnability metrics like Fitts' Law.

Automated Homework Grading System – Developer   **Spring 2024**
• Built a real-time grading system with personalized analytics dashboard.
• Evaluated UI using Jakob Nielsen's usability heuristics.

User Evaluation and Statistical Analysis – Data Analyst   **Fall 2024**
• Conducted ANOVA and Chi-squared tests to evaluate the effectiveness of VR-based cashier training.
• Performed post-hoc analysis using Excel with Real Statistics Plugin to derive insights.

Model Builder (3D Hierarchical Modeling) – Developer   **Fall 2024**
• Developed a 3D object viewer with mesh (.ply) parser and OpenGL-based hierarchical character modeling.
• Implemented real-time character animation controlled via UI and keyboard input.

Procedural Modeling & Boid Simulation – Developer   **Fall 2024**
• Built procedural plants using L-system grammar with customizable visual rules.
• Simulated flocking behavior using alignment, cohesion, and separation algorithms.

Make-it-Home: Furniture Optimization – Developer   **Fall 2024**
• Used simulated annealing to optimize room layouts in OpenGL under spatial constraints.
• Designed a dynamic GUI to visualize and adjust layout cost functions in real-time.

Personal Portfolio Website & Gallery – Developer   **Spring 2025**
• Developed a responsive portfolio with ScrollReveal, Animate.css, Typed.js, and modular sections.
• Integrated resume viewer, chatbot, image gallery with lazy loading, and dark mode.

RESEARCH PAPER:

Fuzzy logic Migraine Prediction Using LSTM and Multi-Layer Perceptron   **Spring 2022**
• The accuracies which are received from the models are 93 percent for the LSTM model and 90 percent for the multi-layer perceptron.
• Using the concepts of fuzzy logic along with LSTM and Multi-layer perceptron the prediction of migraine will be possible.
• It can be said that the LSTM performs better than the multi-layer perceptron and can be used by the community.
• Presented the paper titled "Fuzzy Logic Migraine Prediction using LSTM and Multi-layer Perceptron" in 6th International Conference on "Computational Systems and Information Technology for Sustainable Solutions on 21 December, RVCE College, Bangalore.

CERTIFICATIONS
• Foundations of Data Science – PadhAI, 2021
• Project Management Using Agile – Microsoft Workshop, 2022
• Cloud Computing Workshop – Amazon Web Services (AWS), 2022
• Introduction to Programming with MATLAB – Coursera, 2022
• Problem Solving (Basic) – HackerRank, 2023
• Python (Basic) – HackerRank, 2023
• Frontend Developer (React) – HackerRank, 2023
• SQL (Advanced) – HackerRank, 2023

LEADERSHIP ACTIVITIES

Core Team Member – Aaruush (National-Level Techno-Management Fest) | *SRM Institute of Science and Technology* | *June 2019 – May 2023*
• Served as **Operations & Resource Management Organizer** and **Challenges & Championship Organizer** for Aaruush'22 Chennai, leading large-scale event execution, team collaboration, and stakeholder communication.
• Managed a team of 300+ students, organizing 60+ events, seminars, and robotics competitions while ensuring logistics, financial accountability, and safety compliance.
• Acted as a liaison between the college administration and organizing teams to maintain a smooth and engaging experience for participants. Mentored junior organizers, equipping them with leadership and event management skills.
🔗Meet the Aaruush'22 Team

Local Lead – NASA Space Apps Challenge | *SRM Institute of Science and Technology |2021 & 2022*

• Led team selection and coordination for [NASA Space Apps Challenge 2021](#) and [NASA Space Apps Challenge 2022](#).

• Mentored participants and guided strategic planning, helping earn NASA's recognition for innovation and technical problem-solving. Here are the [Team winners](#)

Committee Head – Milan (National-Level Cultural Fest) | *SRM Institute of Science and Technology |*

June 2019 – May 2023

• Held leadership roles across **Hospitality**, **Operations**, **Discipline**, and **Creative Arts** for Milan, the national-level cultural fest.

• Coordinated with cross-functional teams to ensure seamless execution of artistic and cultural events.

Freelance International Event Manager & Coordinator

Technical & Non-Technical Events | Global | **Ongoing**

• Planned, promoted, and executed a wide range of technical and non-technical events, including coding contests, hackathons, workshops, cultural fests, and panel discussions.

• Specialized in end-to-end event coordination—handling logistics, sponsorships, volunteer management, marketing, and feedback collection for successful high-engagement outcomes.