Sai Peram

| McKinney, TX | 919-432-2097 | sai11.peram@gmail.com | https://www.linkedin.com/in/sai-peram |
| https://github.com/saiperam | https://saiperam.github.io/Portfolio-Website/ |

Education

Bachelor of Science in Computer Engineering (Academic Excellence Scholarship Recipient) Spring 2026
The University of Texas at Dallas, Richardson, TX GPA: 4.000 (*Dean's List*)
Relevant Coursework: Data Structures and Algorithms, Computer Science II, Electrical Network Analysis, Digital Circuits, Calculus II/III, Differential Equations, Discrete Math, Linear Algebra, Physics: Mechanics & Electricity and Magnetism, Probability and Statistics

---

Software Skills

Programming Languages: Python, Java, C, C++, HTML, CSS, JavaScript, Dart, Swift, R, SQL, C#, TypeScript
Technical Skills: Docker Containerization, Kubernetes, ROS2 (Robot Operating System 2), Flask, Microsoft Azure, Amazon Web Services (Cloud Computing, Generative AI, and Machine Learning), Google Big Query (Qwik Start, Datasets, Machine Learning), MATLAB, Flutter SDK, Firebase, Office 365, Git, SimpleITK, React, NodeJS, Slack, Arduino
Certifications: Microsoft Azure AI Fundamentals, Google AI Essentials, Mobile Application Development from The University of Waterloo, Java Programming from The University of Waterloo, Data Analysis, IT Essentials from Cisco

---

Work and Leadership Experience

AI Project Lead, The Artificial Intelligence Society January 2025 – Present

- ❖ Leading the development of an AI driven solution using deep learning and medical imaging to detect eye diseases
- ❖ Managing source code repositories using Git, ensuring an effective collaboration, version control, and integration of AI

AI Track Lead, Theta Tau Alpha January 2025 – Present
Richardson, TX

- ❖ Conducting workshops on key AI concepts such as computer vision, machine learning, deep learning and neural networks

Digital Systems Academic Tutor, Institute of Electrical and Electronics Engineers September 2024 – Present
Richardson, TX

- ❖ Guiding students through digital circuits, circuit design compliance, MIPS assembly, C++, and Java for problem-solving

President, UTDesign Makerspace May 2024 – Present
Richardson, TX

- ❖ Taking initiative in organizing robotics and engineering workshops over 3 months, engaging 100 undergraduate students

---

Technical Projects: SpeakWise, Weather API App, Movie Recommendation, Future House Price Predictor, Breast Cancer Diagnosis

Undergraduate Research Developer, NOVA: Applied Autonomous Driving Project August 2024 – Present

- ❖ Enhancing autonomous vehicle systems using ROS2 for node-based communication and Docker for containerization
- ❖ Implemented computer vision models like YOLOv8 for real-time AI processing of accurate detection and analysis of car brake lights using Linux based platforms like Ubuntu

Medical Image Analysis AI Developer, Artificial Intelligence Society: MedVisor September 2024 – December 2024

- ❖ Developed CNN models to quickly diagnose lumbar spine degenerative conditions from MRI scans, **earning 1st place** in a competitive evaluation judged by academic and industry professionals for contributions in medical image analysis

QuadCore: AI-Powered Financial Web Application, HackUTD November 2024

- ❖ Showed analytical thinking with the integration of 4 AI models for credit card fraud detection using a random forest, monthly budget monitoring using linear regression, personalized financial advice with a large language model, and a stock predictive analysis for S&P 500

Backend Developer of Mobile Application: SpeakWise, Association of Computing Machinery January 2024 – April 2024

- ❖ Implemented Natural Language Processing via OpenAI API calls to help users with public speaking proficiency
- ❖ Applied Agile software development for iOS and Android applications to optimize customer services