Sai Peram

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| 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

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Software Skills

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

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Work and Leadership Experience

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

- Leading workshops on key AI concepts such as computer vision, machine learning, deep learning and neural networks
- Guiding members through hands-on AI projects with a focus on model development and algorithm optimization

CE 2310: Intro to Digital Systems Academic Tutor, Institute of Electrical and Electronics Engineers September 2024 – Present
Richardson, TX

- Guiding students through digital circuits, logic design, and MIPS assembly and C++ and Java for practical learning

President, UTDesign Makerspace May 2024 – Present
Richardson, TX

- Organized robotics and engineering workshops over 3 months, engaging nearly 100 high school students in STEM camps and undergraduate transfers across Dallas-Fort Worth
- Collaborated with UT Dallas faculty to foster hands-on learning and interdisciplinary STEM opportunities

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

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

- Trained and integrated 4 AI models for credit card fraud detection, monthly budget monitoring using linear regression, personalized financial advice with a Large Language Model, and stock predictive analysis for the S&P 500
- Developed a full-stack web application with React and Node.js to enhance financial services to individuals with limited access to traditional banks

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

- Developing and integrating autonomous vehicle systems using ROS2 for node-based communication and Docker
- Utilizing LiDAR and training YOLOv8 models for real-time AI processing of accurate detection through colorspace filtering like LAB and HSV, and analysis of car brake lights in various conditions

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
- Optimized personalized app services via implementing Firebase for secure user authentication