

SANJANA RAVI PRAKASH

sanjanarp26@gmail.com | (682)365-5216 | <https://www.linkedin.com/in/sanjana-rp/>

EDUCATION

Master of Science in Computer Science

University of Texas at Arlington, Arlington, TX, US

Aug 2024 - May 2026

GPA: 3.88/4

Bachelor of Engineering in Computer Science

Visvesvaraya Technological University, India

Aug 2019 - May 2023

GPA: 9.22/10

SKILLS

Languages: Python, Java, C++, HTML, CSS, JavaScript, PHP, Dart, .NET, SQL

Applications: MS Visual Studio, Android Studio, Figma, SQL Server, MySQL, Firebase, Tableau

Other Tools & Frameworks: OpenCV, Flask, NLP, Flutter, LangChain, LLM, SSMS, Streamlit, GANs, PyTorch, Azure

CERTIFICATIONS

Neural Networks and Deep Learning (DeepLearning.AI)

Machine Learning in Production (DeepLearning.AI)

EXPERIENCE

University of Texas at Arlington, Arlington, US

Jul 2025 - Aug 2025

Summer Graduate Research Assistant

- Redesigned the DiffTSR super-resolution pipeline by replacing the text diffusion module with a pretrained CIFAR-10 ResNet classifier for class-guided enhancement. Integrated classifier features into the diffusion process using MoM, enabling high-quality super-resolution of low-res animal images. Built the full PyTorch pipeline and conducted inference experiments on CIFAR-10 various animal classes.

Accenture, Bangalore, India

Aug 2023 - Aug 2024

Package Application Development Associate

- Contributed to the end-to-end development and deployment of scalable .NET Core services for a large-scale client-server architecture, ensuring reliable production rollouts and minimal downtime. Developed components using C#, ASP.NET Core, Angular, and SQL Server while integrating with Azure services and tools such as Azure DevOps and SSMS.
- Actively participated in CAB (Change Advisory Board) meetings to communicate and execute configuration changes, reducing project deployment delays by 25%.

Geekbytes Solutions, Bangalore, India

Jun 2023 - Jul 2023

Web Developer Intern

- Developed and launched a responsive multi-page website using HTML, CSS, and JavaScript, improving the company's online presence and user engagement, resulting in a 43% increase in website traffic and conversions.
- Designed seamless user interfaces in Figma, enhancing the visual appeal and usability of the website, which led to a 30% increase in user satisfaction ratings.

Veripure Industry, Bangalore, India

Aug 2022- Dec 2022

Software Engineer Intern

- Built a Python-based web application using OpenCV library that allows users to click images, and the app determines the color of a chemical solution in test tube in the image taken. Designed and developed user interfaces for a mobile application to perform similar functions using Android Studio in Kotlin. This reduced manual testing time by 40%.

PERSONAL PROJECTS

AI Future Self Simulator

Nov 2025

- Created an AI tool that helps users think through major decisions by showing how different choices could play out over time, using an LLM (GPT-based) deployed via Azure OpenAI Service to reason through scenarios and clearly explain pros, cons, and trade-offs.

EdgeConnect+: Adversarial Inpainting with Edge and Color Guidance

Apr 2025

- Designed a 3-stage GAN-based inpainting framework in PyTorch with edge prediction, TELEA-based color fusion, and final image synthesis. Implemented Canny edge preprocessing, mixed-precision training, EMA stabilization, VGG-based perceptual and style losses, and modular dataloaders for CelebA dataset to enhance structural and colour fidelity in image restoration.

AI-Powered Personal Finance Manager

Mar 2025

- Built a Python based web app with Plaid integration and LLM-driven financial advice using (GPT-4 / GPT-3.5-Turbo) OpenAI API, enabling automated expense tracking, predictive budgeting, and personalized insights. Utilized Streamlit for UI, added bill reminders, receipt scanning, and recurring transaction detection to enhance user experience.

UML Scenario Architect

Nov 2024

- Developed a generative AI system leveraging Llama 3.1 through Groq, LangChain, and Graphviz to autonomously transform software requirements into UML class diagrams via prompt engineering and multi-model orchestration.

Interview Bot

Feb 2023

- Combined NLP (Natural Language Processing) and facial analysis using HuggingFace to build an interactive tool for simulating and improving interview performance using Python & Flask. The bot generates dynamic, context-aware follow-up questions, mimicking the flow of a human-led interview. Utilized HTML, CSS, Javascript for front-end and SQL for storing data. Undergrad Final Year Project- sanctioned under 46th series of Karnataka State Council for Science and Technology Student Project Program 2023.