

SUJAN SANJEEV D

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[in LinkedIn](#) | [Portfolio](#)

📍 Kanchipuram, Tamil Nadu, India

SUMMARY

Results-driven Computer Science student specializing in Internet of Things (IoT). Passionate about bridging theoretical knowledge with practical applications. Seeking opportunities to contribute problem-solving skills and technical expertise in software development, IoT solutions, Machine learning and cybersecurity.

TECHNICAL SKILLS

Programming & Development

- **Languages:** Python, JavaScript, SQL, Shell Scripting
- **Web Development:** React.js, Angular.js, Node.js, Flask , Framer motion
- **Database:** MySQL, PostgreSQL, MongoDB
- **Version Control:** Git, GitHub

AI & Machine Learning

- **Tools & Libraries:** transformers, MediaPipe, Streamlit, Langchain, openCV
- **Generative AI:** LLMs, Transformer Architecture, Prompt Engineering, Huggingface Models
- **Applications:** Text Generation, Dialogue Systems, RAG

IoT & Networking

- **Infrastructure:** Docker
- **Hardware Integration:** Sensor Integration, Basic Robotics

Security & Systems

- **Operating Systems:** Linux (Ubuntu, Arch, Kali)
- **Security:** Network Security, Risk Management

PROFESSIONAL EXPERIENCE

Software Engineer Intern — Gorilla Technology (India) Private Limited

May 2024 - July 2024

- Developed automation scripts for router topology updates in NETBOX using Ansible, improving efficiency by 30%
- Modified OpenWRT UI code to implement external server authentication, enhancing security protocols
- Created a web application for internal lab usage, streamlining data collection and analysis processes
- Designed and implemented UI for SD-WAN device inventory and dashboard, improving visibility and management of network devices
- Developed backend APIs for VPP and FRR using Python, facilitating seamless integration with existing systems
- Collaborated with cross-functional teams to deliver high-quality software solutions on schedule

Full Stack Web Developer Intern — Tata Communications Ltd.

June 2023 - July 2023

- Developed a full-stack e-commerce platform using Angular for front-end and Flask for back-end
- Successfully deployed the e-commerce model on a test service
- Implemented user-friendly interfaces and robust back-end systems with advanced features
- Strengthened skills in Angular, Flask, and related libraries
- Demonstrated strong problem-solving, teamwork, and project management abilities

PROJECTS

Autonomous Off-Road Rover on Unknown Terrain Without Map

September 2023 - October 2024

- Developed an autonomous rover using LiDAR and OpenCV for real-time terrain mapping and geo-location navigation
- Implemented SLAM algorithms for simultaneous mapping and localization
- Designed advanced path planning algorithms for optimal route selection in challenging terrains
- Technologies used: ROS, Python, SLAM, Machine Learning, MQTT

Development of AMR - Crack Detection

January 2024 - Present

- Built an AMR equipped with high-resolution cameras using computer vision models for precise crack detection.
- Implemented computer vision algorithms using OpenCV for real-time crack detection and classification in industrial infrastructure
- Developed automated reporting system for maintenance workflow integration using Python and SQL
- Technologies used: OpenCV, Python, ROS, SQL, REST APIs

AI Teaching Assistant for YouTube

March 2023 - April 2023

- Created a web application using GPT-3 API to answer user queries based on YouTube video content
- Implemented the solution using Python, Streamlit, and GPT-3 API

Sign Language Conversion Tool

January 2023 - March 2023

- Developed a web application for bidirectional conversion between sign language and speech
- Utilized Python, Mediapipe, Streamlit, and OpenCV for implementation
- Project Link: [GitHub Repository](#)

CERTIFICATIONS

Generative AI Foundations — DeepLearning.AI

Completed: December 2024

- Mastered core concepts of Generative AI including transformer architecture, LLMs, and their applications
- Gained practical experience with model pre-training, fine-tuning, and deployment strategies
- Completed hands-on projects in text generation, summarization, and model optimization
- Developed understanding of RLHF, prompt engineering, and responsible AI practices
- Applied knowledge through practical labs using industry-standard tools and frameworks

Google Cybersecurity Professional Certificate

Completed: November 2024

- Mastered foundational cybersecurity concepts including network security, encryption, and risk management
- Gained hands-on experience with security tools such as Linux command line, SQL, and SIEM tools
- Developed skills in threat detection, vulnerability assessment, and incident response
- Completed projects in security audits, risk assessments, and network traffic analysis
- Demonstrated proficiency in compliance frameworks and security best practices

EDUCATION

Shiv Nadar University, Chennai

B.Tech. in Computer Science and Engineering - Internet of Things 2021 - 2025 (Expected)
CGPA: 8.0/10.0

M.L.M Mamallan Higher Secondary School

12th Grade, Tamil Nadu State Board 2021
Percentage: 92%

M.L.M Mamallan Matriculation Higher Secondary School

10th Grade, Tamil Nadu State Board 2019
Percentage: 90%

ADDITIONAL INFORMATION

Languages: English, Tamil

Interests: Music Composition and Orchestration, Pianist, Lawn Tennis