

# GAURAV GANJU

Full Stack Developer & AI Engineer

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## EXPERIENCE

### RoshAi Autonomous Vehicle Solutions

Dec 2024 - Sep 2025

#### Full Stack & AI Engineer Intern

- **Computer Vision Defect Detection:** Deployed camera-based deep learning systems at Nokia and NCR Atleos for automated quality inspection, reducing inspection time by 50% and achieving 10% reduction in labor costs through CNN-powered defect detection on production lines
- **3D Laser Scanner Development:** Engineered custom point cloud-based gel detection system using 3D laser scanner with dual-motor Arduino Mega control system for X-Y axis movement, enabling precise volume estimation of 2-10mm radius thermal gels and optimizing material usage costs
- Built a Lead Management System as an internal tool resulting in 10% increase in conversion rates and also made a requisition system for the administration that led to a 30% reduction in procurement delays by managing all incoming requests.
- Mentored 4 AI Support Engineers on computer vision pipeline development, data collection methodologies, CNN training, and production deployment strategies
- Experimented with several Machine learning algorithms like Random Forest, XGBoost, LightGBM, K-Means, DBSCAN etc. for Tata Motors using large-scale CAN bus and telemetry data analysis for anomaly detection, predictive maintenance, driver behavior analytics
- Designed and developed a clean, responsive and modern website for the company, also added unique UI interactions. You can check it out [here](#).

### Infosys

Apr 2023 – May 2023

#### iOS App Development Intern | Chennai, Tamil Nadu

- Selected among 50 of 500+ applicants for Apple-Infosys joint initiative promoting Swift development and design principles
- Collaborated in cross-functional team developing native Hospital Management System using SwiftUI and Firebase
- Implemented RESTful API integration using Node.js, Express.js, and Nodemailer for email functionality

### Coding Ninjas Club SRM

Jun 2021 – Mar 2022

#### App Development Associate | Chennai, Tamil Nadu

- Organized technical bootcamps, hackathons, and industry speaker events for 200+ participants
- Created technical content strategy for social media engagement and student community building

## PROJECTS

### CogniQuest | iOS Application & ML Model

College Project

#### Skills: SwiftUI, TensorFlow, CNN, Firebase, Flask API

- Developed assistive learning app for neurodivergent children with handwriting recognition capabilities
- Trained custom CNN model using Kaggle dataset and image augmentation techniques achieving about 95% accuracy for character recognition.
- Architected Flask API deployment pipeline and integrated flask API inference with SwiftUI frontend.

## CareTrack | Hospital Management System

Team Project

### Skills: SwiftUI, Figma, Firebase Auth, Firestore

- Collaborated in 10-person development team creating comprehensive healthcare management platform
- Developed patient appointment booking, prescription management, and medical report access features

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## TECHNICAL SKILLS

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### Programming Languages

Python, Swift, JavaScript, SQL, C/C++, Kotlin, HTML/CSS

### Frameworks & Libraries

- **Frontend:** React, Next.js, SwiftUI, UIKit
- **Backend:** Django, Flask, FastAPI, Node.js, Express.js
- **AI/ML:** TensorFlow, PyTorch, Keras, Scikit-learn
- **Computer Vision:** YOLO, ResNet, OpenCV
- **Data Science:** NumPy, Pandas, Matplotlib

### Databases & Cloud

MongoDB, PostgreSQL, MySQL, Firebase, Google Cloud, Azure, Kubernetes

### Development Tools

Git, Docker, Jira, Postman, Selenium, Arduino SDK

### Specialized Technologies

WebRTC, WebSockets, RTSP, LLMs, LangGraph, Point Cloud Analysis, Serial Communication

### Design & UX

Figma, Adobe XD, Wireframing, Prototyping, User Testing, Atomic Design

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## EDUCATION

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### SRM University

June 2024

#### BS Computer Science | Chennai, India

- GPA: 8.77/10.0
- **Relevant Coursework:** Artificial Neural Networks, Digital Image Processing, Natural Language Processing, Formal Language & Automata Theory

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## CERTIFICATIONS & AWARDS

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**2024 IEEE Publication:** "CogniQuest: AI-Powered Learning Assistant for Neurodivergent Children"

**2022 PALS Virtual Lab Certificate:** Control Engineering Laboratory Development (HTML/CSS/JavaScript)

**2022 Google UX Design:** UX Design Process & Foundations

**2022 Apple Swift:** Introduction to Programming Using Swift

**2021-2022 University of Michigan:** Python Programming Specialization (Coursera)

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## ADDITIONAL INFORMATION

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### Languages

English (Fluent), Hindi (Native), German (A2 Level), Kashmiri (Native)

### Industry Knowledge

Autonomous Vehicles, Computer Vision, LIDAR Technology, Point Clouds, SLAM, Industrial Automation