

# DARSHAN MANOJ

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## EDUCATION

### University of Southern California

Master of Science, Computer Science

August 2024–May 2026

Los Angeles, United States

- Coursework: Analysis of Algorithms, Web Technologies, Machine Learning and Database Systems

### Amrita Vishwa Vidyapeetham

Bachelor of Technology, Computer Science

July 2019–July 2023

Coimbatore, India

- Coursework: Data Structures & Algorithms, Database Management, Operating Systems, and Cloud Computing

## SKILLS

**Languages:** Python, C/C++, JavaScript, Typescript, Java, Swift, C#, SQL

**Frameworks & Tools:** React, Angular, Flask, Django, NodeJS, Express, Bootstrap, NumPy, Pandas, Scikit-learn, Matplotlib, Py-Torch, Tensorflow, Git, Github, Postman, Xcode, Jenkins, Linux, Kubernetes, Docker, RabbitMQ, GraphQL, Kafka

**Database and Cloud Technologies:** Postgres, Oracle DB, MongoDB, AWS, GCP Azure, Apache, Ngnix

## WORK EXPERIENCE

### Software Engineer

Sthalam Decors Pvt. Ltd.

May 2023–July 2024

Chennai, India

- Designed and optimised a fully functional **e-commerce** platform, including user-friendly interfaces, secure payment integration, and backend systems for logistics. Utilized CI/CD and agile strategy to improve collaboration.
- Built and deployed a custom Customer Relationship Management (CRM) system using JavaScript, enabling automated scheduling, client insights, and client priority ranking for sales teams; **reducing lead conversion costs by 40%**.
- Streamlined and automated workflows by digitizing manual processes, including billing, inventory management, and customer service, through Python, C++, JavaScript, and Google App Scripts, achieving an **80% reduction** in task completion time.
- Utilized tools and platforms including HTML5, CSS, JavaScript, WordPress, Shopify, Meta Business Tools, Razorpay API and Shiprocket API to deliver scalable solutions and improve operational efficiency.

### Research Intern

Lakehead University, Mitacs Globalink

May 2022–August 2022

Thunder Bay, Canada

- Developed first of its kind **cross-chain interoperable blockchain bridge** for enabling communication between different blockchains. Utilised concurrency and parallel computing for developing the core solution.
- Published the research work at **IEEE Internet of Things Journal**. (<https://ieeexplore.ieee.org/document/10133839>)

## ACADEMIC PROJECTS

**Invi-chat** | JavaScript, Node.js, Express, React, Twilio, MongoDB, AWS, Python

[\(Youtube Link\)](#)

- Built a social media-driven inventory management bot using **microservice architecture** for seamless client-server interaction.
- Integrated Twilio API for WhatsApp messaging and ML-based recommendations for inventory insights.
- Deployed on AWS EC2, exploring serverless (Lambda) functions; led the team at **Amazon Smbhav Hackathon, securing 3rd place**.

**Web & iOS Mobile Weather App** | Flask, JavaScript, Angular, Node.js, MongoDB, SwiftUI, GCP

[\(Github Link\)](#)

- Built a **REST application** by leveraging Tomorrow.io, IPinfo, Google Places API, and Highcharts for real-time forecasts.
- Developed three variations (Flask-JS, Node-Express-Angular-MongoDB, SwiftUI-Node-Express) to analyze performance, systems design, and design pattern
- Deployed on Google Cloud Platform, optimizing response times by 30% through efficient API proxying.

**Smart Helmet** | Embedded IoT Hardware, Machine Learning, Python, Android App Development

[\(Article Link\)](#)

- Developed an AI-powered helmet for cyclists, integrating real-time safety alerts and health monitoring.
- Built a voice-enabled navigation system (Python, Google Maps API) and a YOLO-based road sign detection model.
- Achieved **87.3%+ accuracy in sign detection**; presented at the **EU Urban Mobility Hackathon and won 1st place**.

**Recruiter Connect AI** | Python, JavaScript, LangChain, ChromaDB, Mistral & LLaMA LLM, SMTP

[\(Github Link\)](#)

- Built an AI-powered job application assistant that scrapes LinkedIn job details and stores them in a vector database.
- Leveraged **Mistral & LLaMA LLM** to generate personalized cover letters, automating 100+ email applications via Google SMTP.
- Developed as part of GRIDS-USC, enhancing expertise in LLMs, vector databases, and AI-driven automation.