

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 (Prof. Victor Adamchik) and Web Technologies (Prof. Marco Papa)

Amrita Vishwa Vidyapeetham

Bachelor of Technology, Computer Science (CGPA-8.92/10)

July 2019–July 2023

Coimbatore, India

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

EXPERIENCE

Software Engineer

Wood Inc.

May 2023–July 2024

Chennai, India

- Spearheaded the transformation of a traditional home decor design business into a leading e-commerce product brand which lead to 20% increase in revenue. Led end-to-end development and optimization of online store, leveraged CI/CD pipelines, agile methodologies, and SEO practices to enhance performance and visibility.
Tools Leveraged: HTML, CSS, JavaScript, WordPress, Shopify, Meta Business Tools & Mailchimp
- Initiated and implemented a custom low-level customer relation management software using JavaScript to improve client management for sales teams, featuring automated scheduling, client insights, and priority ranking; completed development and testing in 10 weeks which lead to reduce in customer acquisition cost by 40%.
- Automated manual processes such as billing, stock entry, cash vouchers and customer service with the help of Python, C++, JavaScript and Google App Scripts. This decreased the time taken for these tasks by 80%

Research Intern

Lakehead University (Fully Funded Mitacs Internship), Supervisor - Dr. Gautam Srivastava

May 2022–August 2022

Thunder Bay, Canada

- Developed first of its kind cross-chain interoperable blockchain bridge for enabling communication between different blockchains
- Compiled code from scratch using C++ by applying Parallel Computing, Threads & Cryptography.
- Published the research work at IEEE Internet of Things Journal. ([Research Paper - Link](#))

Research Intern - (Research Gate Profile)

Amrita Vishwa Vidyapeetham, Supervisor - Dr. Priyanka Kumar

June 2020–January 2022

Coimbatore, India

- Developed smart contracts for secure and transparent crowd funding by utilizing Solidity and integrated it with a front end application built using React.js. The platform developed saves organizations 30% time in the administrative tasks of crowdfunding. ([Research Paper - Link](#))
- Designed a circular supply chain management system using smart contracts which is estimated to reduce consumer carbon footprint by 30%. Analyzed various consumer oriented businesses to develop a sustainable solution framework. ([Research Paper - Link](#))

PROJECTS

Invi-chat | Javascript, Express.js, React, Node.js, Twilio

October 2022–Mar 2023

- Engineered a Social Media based Inventory Management Bot utilizing Microservices with a Serverless Architecture
- Used Twilio API to send and receive messages via Whatsapp and MongoDB to store files and user log.
- Led the team at **Amazon Smbhav Hackathon 2022**. Pitched and secured 2nd Runner Ups amid 27000+ participants which included startups and professionals. ([Youtube Link](#))

Smart Helmet | IoT Hardware, Machine Learning, Python, App Development

June 2021–July 2021

- Assembled a smart headgear that can be used by cyclists to enhance safety and to keep a track of their health
- The system consisted of a Voice Enabled Navigation System built with the help of Python and Google Maps API, an Android app for data analysis and a Road Sign detection model running on Raspberry Pi.
- Pitched the idea at the European Union - **Urban Mobility Hackathon 2021** and emerged as Winners. ([Article Link](#))

SKILLS

Languages: C, C++, Python, JavaScript, Typescript, Java, PHP, Shell Scripting

Frameworks: React, Angular, Flask, Node.js, Express.js, Bootstrap, Material-UI, Microsoft Office & Excel, Solidity & Latex

Database and Cloud Technologies: SQL, Oracle DB, MongoDB, AWS, GCP (Certified), Kubernetes, Docker

Core Competencies: Communication Skills - Student Lead at ACM Amrita Chapter & Cisco thingQbator, Presentation Skills - Presented research work at IEEE GlobConPT 2022 & Vehicular Technology Conference 2023.