Darshan Manoj

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Education

University of Southern California August 2024–May 2026
Master of Science, Computer Science (CGPA - 3.15/4.0) *Los Angeles, United States*
- Coursework: Analysis of Algorithms, Web Technologies, Machine Learning and Database Systems

Amrita Vishwa Vidyapeetham July 2019–July 2023
Bachelor of Technology, Computer Science (CGPA-8.92/10) *Coimbatore, India*
- Coursework: Data Structures & Algorithms, Database Management, Operating Systems, and Cloud Computing

Skills

Languages: Python,C/C++, JavaScript, Typescript, SwiftUI, Java, PHP, Unix
Frameworks & Tools: React, Angular, Flask, Node.js, Express.js, Bootstrap, NumPy, Pandas, Scikit-learn, Matplotlib, Tensorflow, Microsoft Office & Excel, Git & Github, Postman, Xcode
Database and Cloud Technologies: SQL, Oracle DB, MongoDB, Amazon Web Services, Google Cloud Platform (Certified), Kubernetes, Docker, RabbitMQ

Work Experience

Software Engineer May 2023–July 2024
Wood Inc. *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. (Project Link)
- Built and deployed a custom low-level 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 - Mitacs Globalink May 2022–August 2022
Lakehead University, Supervisor - Dr. Gautam Srivastava *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. (Research Paper - Link)

Academic Projects

Web & iOS Mobile Weather App | *Flask & Javascript, AngularJS, NodeJS, MongoDB, ExpressJS, SwiftUI, GCP*
- Developed a weather application using REST APIs like - Tomorrow.io, IPinfo, Google Places Autocomplete & Highcharts
- Used Flask and NodeJS for backend proxy servers, MongoDB for storage and Google Cloud Platform for deployment
- Built three variations of the weather app using Flask-JavaScript, Node.js-Express with Angular-MongoDB, and SwiftUI with Node.js-Express-MongoDB to explore performance and flexibility and understand design patterns. (Github Link)

Invi-chat | *Javascript, ExpressJS,ReactJS, NodeJS, Twillio, MongoDB, AWS, Python*
- Engineered a Social Media based Inventory Management Bot utilizing Microservices for client-server interaction.
- Used Twillio API to send and receive messages via Whatsapp, MongoDB to store files and ML-Recommendation system.
- Learned about AWS EC2 and serverless architecture. Led the team at **Amazon Smbhav Hackathon**. Pitched and secured 2nd Runner Ups amid 27000+ participants which included startups and professionals. (Youtube Link)

Machine Learning For Finance | *Tensorflow, Natural Language Processing, Scikit-Learn, Plotly, Pandas & Numpy*
- Built a stock price predictor using Ridge Regression Model & Deep Neural Networks
- Learned about asset allocation and capital markets and understood risk tolerance, target returns and investment strategies.
- Expanded the scope of the project by performing data analysis on bank market customer segment and dealt with sentiment analysis using twitter data. (Github Link)

Smart Helmet | *Embedded IoT Hardware, Machine Learning, Python, Android App Development*
- 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 YOLO based Road Sign detection model running on Raspberry Pi for real time safety alerts
- Pitched the idea at the European Union - **Urban Mobility Hackathon** and emerged as Winners. (Article Link)