MOHAN MALLESHAPPA

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SKILLS

Programming Languages:	Python, JavaScript, Java, C++, C, Go, .NET, Swift, Data Structures and Algorithms Optimization
Mobile & Web Technologies:	React, Angular, Node.js, Django, Flask, REST, Kotlin, Apex, LWC, Fast API, NextJS
Database & Cloud:	MySQL, MongoDB, Postgres, Pinecone, Google Cloud Platform, AWS, Azure
AI & ML Engineering:	Machine Learning, Deep learning, GenAI, LLM, NLP, PyTorch, Keras, TensorFlow, Alteryx
Tools and DevOps:	Docker, Kubernetes, Postman, Linux, Git, Redis, Kafka, Agile, BitBucket
EXPERIENCE	

Sitetracker

Software Development Engineer Intern

- Engineered a production tracking feature by integrating advanced SQL optimizations, backend workflow redesign, and dynamic UI components, improving data retrieval speed by 30% and accelerating product lifecycle and design decision-making.
- Built a core feature for the **React** datatable, making it a scalable reusable framework adopted by 40% of Sitetracker's product.
- Triaged and resolved 35+ customer issues across QA orgs by performing root cause analysis (RCA) and delivering code fixes within SLA timeframes, reducing turnaround time by 25% through adherence to SDLC processes.
- Developed a comprehensive React Native duty roster module, introducing a progressive calendar-based job to automate shift • assignments, resource allocation, and troubleshooting workflows, projected to improve workforce productivity by 40%.
- Refactored a project scheduling engine using Apex batch processing, improving execution performance by 20%.

NeuroTechR3

New Jersey, USA

- Research Assistant | NJIT Crafted a scalable Flask-based Chatbot API, processing 10k+ daily document and user queries using RAG with Pinecone and NoSQL via DynamoDB, improving 80% response accuracy while ensuring HIPAA compliance data privacy.
- Devised a LangChain powered input classification system that converts natural language into aggregation pipeline queries, . reducing latency by 40% through intelligent RAG and NoSQL routing of user requests.
- Collaborated with cross-functional teams to develop a real-time responsive graph generation system using Matplotlib for • progress visualization, integrating AWS S3 storage.

Cognitive Clouds

Full-Stack Software Engineer

- Designed a cross-platform mobile application using React Native (TypeScript), Node.js, and MongoDB, featuring real-time • appointment scheduling, push notifications (FCM for Android and APNs in IOS) and reducing service booking time by 60%.
- Integrated real-time messaging functionality using Quikblox API and implemented secure payment processing via Hyperpay • Gateway, ensuring seamless communication and consistent financial transactions while reducing transaction failures by 25%.
 - Sustained 90%+ test coverage with Jest.js via CI/CD pipelines, reducing production bugs and maintaining code quality. Bengaluru, India

Freight Deck Technologies

Data Engineering Intern

- Crafted **microservices** based data ingestion logic to capture and handle high-velocity delivery logs using Apache Spark, Hadoop. •
- Restructured backend with **FastAPI** and **RabbitMQ**, boosting logistics visibility by **60%** through async workflow optimization. •

EDUCATION

New Jersey Institute of Technology Master of Science in Computer Science Sir M Visvesvaraya Institute of Technology (VTU) Bachelor of Engineering in Computer Science

PROJECTS

Healthy Eating Plate - github

Technologies: MongoDB, Express.js, React.js, Node.js

- Developed personalized **meal planning application** generating **500**+ nutrition plans and released as an **open source** project. •
- Used **React-Redux** for state management, enabling smooth interaction, commenting, and routine sharing across components.

Payroll Management System - github

Technologies: React, HTML, JavaScript, SQL Server, PHP

Led the design and development of a comprehensive payroll management system serving 100+ administrators with an algorithmic **calculation engine** and **intuitive interface** for real-time updates to bonuses, overtime, and deduction adjustments.

Bytematic Inventory Management System

Technologies: React, JavaScript, Spring Boot, Node.js

Delivered a scalable SaaS inventory management system using Spring Boot with core modules for procurement tracking, purchase management, and real-time dashboards, improving business efficiency by 35% and customer service delivery.

LEADERSHIP AND ACHIEVEMENTS

- Won tech guizzes and hackathons, including Brainwave, TechKnow Quiz, and Smart India Hackathon (Regional Round).
- Facilitated students in Web Systems coursework as a Teaching Assistant at NJIT for 18 months.

Aug 2024 – Jan 2025

New Jersey, USA

May 2024 – May 2025

Bengaluru, India

Aug 2022 – May 2023

New Jersev, USA *Sept 2023 – May 2025* Bengaluru, India

Jan 2022 – Mar 2022

Aug 2018 - July 2022