Praneeth Chitturi

Portfolio: https://www.praneethc.dev

📱 (979)-721-1775 ✉ praneeth@tamu.com in LinkedIn </> LeetCode ⭘ GitHub

EDUCATION

Texas A&M University, College Station, TX **Aug 2023**
Master of Science | Coursework: Deep Learning, Database Systems and Big Data, Statistical Time Series GPA: 3.4/4

Manipal Institute of Technology, Manipal, India **May 2021**
Bachelor of Technology (Rank #4 out of 80) | Coursework: Optimization Techniques, Statistics, Operations Research GPA: 3.8/4

TECHNICAL SKILLS

Languages:	Java, Python, JavaScript, TypeScript, R, SQL, HTML, CSS
Tech Stack:	Spring Boot, React, Node.JS, Express.JS, React Native, Django, MongoDB, MySQL, AWS, Tailwind CSS, MUI, Redux, Spring Data JPA, Flask, Postman, Selenium, Tableau, PowerBI, LangChain, Figma
Core Skills:	Full-Stack Development, REST APIs, Microservices, Socket Programming, CI/CD, System Design, Unit Testing, Web Automation, Data Science & Analytics, ETL Pipelines, Deep Learning, Database Management
DevOps:	Git, Jenkins, Docker, Kubernetes, Nexus, SonarQube, AquaTrivy, Prometheus, Grafana, EC2, EKS

WORK EXPERIENCE

Tesla, Inc. **May 2022 – Present**
Software Engineer | Tech Stack: Java, Python, SpringBoot, React, Kubernetes, Jenkins, AWS *Fremont, CA*
- Built scalable supply chain solutions utilizing **Java Spring Boot**, and **React** for Tesla's Control Tower, facilitating multiple internal teams (Logistics, Fulfillment, Distribution Centers, Service Centers, and Planning) to **track order lifecycles**, resulting in a **20% increase in operational efficiency**
- Created modular, cross-platform interfaces in **React**, **MUI** and **Tailwind CSS** by building **130+ reusable components**, improving development speed and consistency, and **optimized database schemas** with MongoDB, boosting **retrieval speed**
- Engineered end-to-end web applications using **React**, **Redux**, and **Node.js**, including interfaces for PartSupplierManagement upload screens and other planning tools, enabling teams to update MRP systems, streamline **supply chain adjustments**
- Architected a secure, scalable **CI/CD pipeline** integrating **Jenkins**, **Kubernetes**, and **Docker** for production-grade Java applications, enhancing deployment reliability with **Nexus artifact management** and RBAC integration
- Deployed and Provisioned **Kubernetes clusters** from scratch with master and worker node configurations, RBAC policies, and NGINX ingress load balancing, enhancing **system resilience** and **scalability** for **microservices**

Data Analyst | Tech Stack: Python, R, MySQL, MS-SQL, Apache Airflow, Tableau
- Built **ETL pipelines** to extract, clean, and organize data from **WARP**, **WMS** & **TMS databases**. Implemented user-friendly **dashboards** for Channel Planning Managers to identify **Bottlenecks** and improve **end-to-end Stock Order Performance**

System Analysis FE Lab **Jan 2022 – May 2022**
NLP Student Researcher | Tech Stack: Python, ML Libraries, NLP, PowerBI *College Station, TX*
- Designed **root cause models** for aviation accidents by **data mining** NSTB database in **Python** using **Natural Language Processing (NLP)** & created **dashboards** in **Power BI** to prioritize accidents requiring funding for corrective actions

Sritha Chems Pvt. Ltd. **Jan 2020 – Jun 2021**
Software Development Engineer - I | Tech Stack: NodeJS, ExpressJS, MongoDB, React *Hyderabad, India*
- Implemented **REST APIs** for **role-based user management** and **CRUD** operations, achieving **40% faster query performance** with **custom database schema** optimization
- Configured **AWS EC2 servers** with IAM Roles, Security Groups, and RDS for secure, 100% scalable infrastructure, ensuring **high availability** and **optimal performance**; Boosted operational efficiency through **Prometheus** and **Grafana** monitoring, providing real-time metrics for applications hosted on **AWS EKS clusters**

PROJECT EXPERIENCE

GrabGrub Food App | *Tech Stack: Java, SpringBoot, React, PostgreSQL, StripeAPI | [Link]* **Oct 2024**
- Constructed a feature-rich Restaurant Management System with **Spring Boot**, **PostgreSQL**, and **React**; with secure payment processing via Stripe API and **real-time order updates** through state-efficient **Redux management**

Real-Time Chat App | *Tech Stack: React, ExpressJS, MongoDB, WebSocket.IO, Redux, MUI | [Link]* **Aug 2024**
- Developed a real-time chat application with **Socket.io** and **MongoDB**, integrating features like **user authentication**, **friend requests**, and **instant messaging** with a dynamic frontend developed in **React**, **Redux**, and **Material-UI** for real-time updates

Social Calender AI | *GenAI Hackathon 2024* | *Tech Stack: MERN, OpenAI, CrewAI, AWS | [Link]* **May 2024**
- Engineered an **AI-driven event scheduling** application, utilizing **OpenAI ADA embeddings**, **MongoDB vector search**, and **AWS Lambda** to provide personalized, scalable recommendations through **Multi-agent LLM pipelines** using **CrewAI**

Simulation Optimization of Hospital Care Facility | *Simio 2021 Competition* | *[Link]* **Dec 2021**
- **Managed 3-person team** to **reduce operational costs** by **46%** with optimal Shift schedule & Facility layout (No. of Operation Rooms and Staff Capacity) with patient satisfaction in recommended model by **Experimental Design** in **Python** & **Simio**