VENUGOPAL KATRAGADDA

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WORK EXPERIENCE

Full Stack Developer

Community Dreams Foundation, Florida, United States   July 2025 - Present

- **Engineered scalable, secure application services** with robust authentication, rate limiting, and data optimization, supporting 300+ active users with **99.9% uptime**.
- **Designed and delivered real-time dashboards and workflows** that reduced response turnaround by **40%** across 200+ monthly submissions.
- **Automated build and deployment pipelines** to streamline releases and reporting, reducing manual effort by **30%**.

Software Engineer

Hands Infotech Inc, Michian, United States   August 2024 - May 2025

- **Built and maintained scalable application services** with secure access controls, validation, and optimized data handling, supporting **120K+ records** with reliable performance.
- **Delivered end-to-end product features** including responsive user interfaces, backend logic, and database interactions, reducing manual operational errors by **35%**.
- **Optimized system performance and reliability** through efficient data access patterns, API integrations, and deployment-ready workflows, improving query performance by **25%**.

Graduate Teaching Assistant

Illinois Institute of Technology, Chicago, USA   August 2024 - December 2024

- **Mentored 40+ students** on full-stack and database projects **(SQL, ER modeling, Agile)**, driving a **15% improvement** in project outcomes.
- **Created structured SQL DB design guides** that enabled students to complete **3 real-world projects with 90%+ accuracy**.

Mobile Application Developer: MyChevrolet Application link (General Motors)

Tata Consultancy Services Ltd, Hyderabad, India   August 2021 - August 2023

- **Delivered high-performance application features at scale**, supporting **100K+ monthly active users** with reliable user experiences and production-level stability.
- **Implemented end-to-end features across user interfaces, service integrations, and data pipelines**, improving engagement by **30%** and ensuring **99.9% data accuracy**.
- **Streamlined delivery from design to production** by translating design specifications into production-ready components and aligning development with modern build, test, and release workflows, reducing turnaround time by **20%**.

Software Engineer Intern

HG Sports Analytics, Hyderabad, India   May 2020 - May 2021

- Built **React** dashboards for 25+ athletes, enhancing real-time performance insights and accelerating analytics workflows.
- Developed **Node.js + PostgreSQL APIs**, reducing data latency by 40% and improving match-day decision-making.

PROJECTS

Meck Mindset - AI-Powered Habit Tracking Web Application: Website link | Github

- Built a full-stack habit tracking app with **AI coaching (Groq API) and real-time chat using React, TypeScript, Node.js, Express, MongoDB, Firebase, and Socket.IO**, deployed on **Vercel/Render/MongoDB Atlas with CI/CD via GitHub**, delivering a responsive Tailwind + Framer Motion UI and 100% feature reliability across devices.

Inventory Manager – Multi-Tenant Inventory Management Web Application: Website link | Mobile application link | Github

- Designed an Amazon-style inventory management UI using **React, Vite, Tailwind CSS**, and defined a full-stack architecture using **Laravel and PostgreSQL**, covering 10+ modules (catalog, warehouses, purchasing, sales, transfers, counts, reports) with a deploy-ready blueprint and 10-week roadmap enabling **low-cost SaaS rollout for small businesses**.

AI Trip Planner SaaS Web Application: Github

- Built a full-stack SaaS AI trip planner with **Next.js, Tailwind CSS, OpenAI API, Mapbox**, delivering personalized travel itineraries with **real-time map visualization** and increased user engagement by **35%** through responsive design, animated UI, and interactive features.

LearnMate – AI-Powered Note Summarizer: Github

- Developed a cross-platform **React Native** app using **Expo Router, Tailwind CSS, and Groq LLaMA-3 API**, with **Firebase** based uploads, history, **reducing note retrieval time by 40%** for students.

SmartHomes Web Application: Github

- Built a **Java Servlets + React e-commerce app** with **MongoDB**, reducing product lookup time by 25%.

Comparative Analysis of Big Data Models

- Led a research team evaluating **TensorFlow, AWS SageMaker, SparkR** for large-scale data processing.

EDUCATION

Illinois Institute of Technology, Chicago, IL   August 2023 - May 2025

Master in Computer Science | GPA: 3.7/4 | Courses: Enterprise Web Applications, Database Organization, Machine Learning, Big Data Technologies.

Gokaraju Rangaraju Institute of Engineering & Technology, Hyderabad, India   August 2017 - July 2021

Bachelors in Electronics and Communication Engineering | GPA: 8.86/10 | Courses: OOPs, Cloud Computing, DSA using Python

SKILLS

Programming Languages: C, C#, Java, Python, TypeScript, JavaScript, PHP

Frontend & Full-Stack: React.js, React Native, Angular, Next.js, HTML5, CSS3, Bootstrap, Tailwind CSS, Node.js, Express.js, ASP.NET, .NET Core

Databases & Data Management: SQL (PostgreSQL, MySQL, MS SQL Server, Oracle), MongoDB, EdgeDB, NoSQL, GraphQL, Firebase

Big Data & Streaming: Hadoop, HDFS, Hive, Spark, Kafka, Cassandra, MapReduce

Cloud & DevOps: AWS, Azure, Kubernetes, Docker, CI/CD (GitHub Actions, Bitbucket, Azure DevOps), Git, Jira