

VENUGOPAL KATRAGADDA

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EDUCATION

Illinois Institute of Technology, Chicago, IL

August 2023 - May 2025

Master in Computer Science, GPA: 3.7/4

Relevant 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

Relevant Courses: Object Oriented Programming, Cloud Computing, Data Structures and Algorithms using Python

WORK EXPERIENCE

Lead Full Stack Developer

Community Dreams Foundation, Florida, United States

July 2025 - Present

- Designed and deployed a feedback system using **React, Tailwind CSS, Redux Toolkit, ASP.NET Core Web API**, reducing response turnaround by **40%**.
- Built a secure backend with **JWT authentication, rate limiting, MongoDB, Entity Framework Core**, increasing system uptime to **99.9%**.
- Developed an admin dashboard with **dynamic charts and CI/CD pipelines**, automating reporting and cutting manual work by **30%**.

Software Engineer

Hands Infotech Inc, Michigan, United States

August 2024 - May 2025

- Delivered full-featured dashboards with **React (TypeScript)** and **CRUD views**, improving HR workflows, reducing manual errors by **35%**.
- Built and optimized **ASP.NET Core Web API** with **MS SQL Server**, implementing secure endpoints, pagination, and validation to boost query efficiency by **25%**.
- Improved data accessibility and reduced downtime through **REST API integrations** and **server-side validation**.

Graduate Teaching Assistant

Illinois Institute of Technology, Chicago, USA

August 2024 - December 2024

- Mentored **40+ students** in full-stack and database projects using **SQL, ER modeling, and Agile workflows**, resulting in an average **15% improvement in project scores**.
- Created teaching materials on **SQL queries and schema design**, enabling students to solve real-world problems efficiently.

React native Developer: [Link](#)

Tata Consultancy Services Ltd, Hyderabad, India

August 2021 - August 2023

- Built and deployed major features for **General Motors mobile app** (React Native, Redux, Jest), increasing user engagement by **30%** and supporting **100K+ monthly active users**.
- Collaborated across teams to convert **Figma designs** into production-ready UI, cutting design-to-deployment cycle time by **20%**.
- Integrated **Java (Spring Boot), Kafka, PostgreSQL, AWS APIs** with 99.9% data accuracy, ensuring secure and scalable performance in an Agile environment.

Software Engineer Intern

HG Sports Analytics, Hyderabad, India

May 2020 - May 2021

- Assisted in building **React dashboards** for cricket analytics, improving UI responsiveness and adoption by **25+ professional athletes**.
- Integrated backend **Node.js, Express, PostgreSQL APIs**, reducing data retrieval latency by **40%**.
- Contributed to real-time data visualization features, enhancing performance and user engagement based on feedback.

PROJECTS

Meck Mindset Web Application: [Website](#) | [Github](#)

- Developed a full-stack habit-tracking platform using **React, TypeScript, Redux Toolkit, Node.js, Express, MongoDB, and Firebase**, featuring AI-powered coaching (Groq API) and real-time chat with Socket.IO.
- Deployed on **Vercel, Render, and MongoDB Atlas** with secure authentication, responsive UI (Tailwind CSS + Framer Motion), and integrated **CI/CD via GitHub**, achieving fast load times and 100% functional feature coverage across desktop and mobile.

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 mobile app using **React Native, Expo Router, TypeScript, Tailwind CSS, GROQ LLaMA-3 API**, enabling **instant AI summaries** from user notes.
- Integrated **Firebase for secure PDF uploads and note history**, reducing note retrieval time by **40%** and improving study efficiency.

SmartHomes Web Application: [Github](#)

- Engineered a full-stack e-commerce platform using **Java Servlets, React, MySQL, and MongoDB**, integrating user authentication, order management, analytics, and auto-complete search to enhance UX and reduce 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.

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

Tools: MATLAB, Excel, Android Studio, VS Code, Unix/Linux, IoT