

Karthik Gurram

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About Me

Computer Science student at VNRVJiet with strong skills in DSA, full-stack development, OS fundamentals, and system design. Knight badge on LeetCode, Pupil on Codeforces. Proficient in C++, Java and web technologies. Eager to apply problem-solving and engineering skills at Top companies.

Experience

Software Development Intern

Dec 2024 – Apr 2025

Real-Time Food Delivery Platform

Hyderabad, India

- Developed a comprehensive food delivery platform (web & mobile) using MERN stack and Flutter, implementing real-time order tracking and payment integration
- Built admin dashboard, delivery partner integration, and user authentication systems with JWT and OAuth
- Collaborated with cross-functional teams using Git workflows and implemented CI/CD pipelines with GitHub Actions

Full Stack Developer Intern

Aug 2024 – Nov 2024

Hostel Management System

On Site

- Architected and developed a comprehensive hostel management platform using MERN stack with Socket.IO for real-time features
- Implemented automated room allocation, outpass management, complaint handling, and real-time chat with image sharing capabilities
- Designed separate admin and student portals with role-based access control and JWT authentication

Backend Developer Intern

May 2024 – Jul 2024

VNR Keys - Key Management System

On Site

- Built a role-based key management system with QR code integration and real-time updates using Socket.IO
- Implemented secure JWT authentication and automated deployment pipelines with GitHub Actions for Vercel and Render
- Developed RESTful APIs with comprehensive error handling and data validation using Node.js and Express.js

Projects

AI Event Monitoring System | Python, Node.js, React, MongoDB, AI/ML



- Developed a full-stack AI-powered surveillance system for real-time incident detection using video and audio analytics for emergency response in public spaces
- Built advanced Python detection models for fire/smoke, crowd density, pose analysis, and fallen person detection with configurable pipelines and JSONL logging
- Implemented Node.js REST API with MongoDB integration, role-based access control, and automated email notification system using Mailtrap
- Created responsive React dashboard with real-time monitoring, Google Maps integration, camera management, and in-app audio alerts

VNR Keys - Role-Based Key Management System | MERN Stack, Socket.IO, CI/CD



- Built a comprehensive key management platform with role-based access control, QR code integration, and real-time updates
- Implemented JWT authentication and automated CI/CD pipeline with GitHub Actions for Vercel and Render deployments

Comprehensive Hostel Management System | MERN Stack, Socket.IO



- Developed a full-stack web application for hostel administration featuring student management and automated room allocation
- Implemented real-time chat with image sharing, outpass management, and complaint handling with separate admin and student portals

Real-Time Food Delivery App + Website | MERN Stack, Flutter



- Built a scalable food delivery platform with real-time order tracking, admin dashboard, and responsive UI
- Developed using MERN stack for web and Flutter for mobile app with integrated payment systems

AI-Powered Study Buddy Web & Mobile App | React, Node.js, AI Integration



- Built an AI-driven study platform featuring smart flashcards, personalized study planner, and real-time AI chatbot
- Implemented Pomodoro timer with distraction blocker and performance analytics dashboard

Productivity Management Chrome Extension | JavaScript, Chrome APIs



- Created a Chrome extension that tracks user activity, enables site blocking, and offers productivity insights
- Implemented session analytics and customizable focus modes with real-time activity monitoring

Technical Skills

Languages: TypeScript, JavaScript, Python, C, C++, Java

Frontend: HTML, CSS, React.js, Next.js, Bootstrap, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, GraphQL

Mobile Development: Flutter, React Native, Firebase

Databases: MySQL, MongoDB, PostgreSQL

Tools & Technologies: Git, GitHub, GitLab, Docker, Postman, VS Code, Android Studio

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), CI/CD (GitHub Actions, GitLab CI/CD), Vercel, Render, Nginx

Achievements

Hackathon Winner (4x): Won Map an App competition at Convergence (VNRVJIEET Tech Fest) and 3 other major hackathons

LeetCode Knight Badge: Achieved Knight status with consistent problem-solving performance and 500+ problems solved

Codeforces Pupil: Maintained competitive programming rating demonstrating strong algorithmic expertise

GSSOC '24 Ranked 194: Solved 30+ issues and contributed to major open-source projects

Hacktoberfest '24 Contributor: Merged 6+ pull requests in open-source repositories

CSOC '24 Finalist: Finalist in Competitive Summer of Code for exceptional problem-solving skills

Palisadoes Foundation Contributor: 20+ PRs merged, demonstrating active open-source involvement

Education

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology

Hyderabad, India

Bachelor of Technology in Computer Science and Engineering

2023 - 2027

CGPA: 8.6/10.0

Career Vision & Commitment

Passionate about building scalable, end-to-end software solutions that solve real-world problems through innovative full-stack development. Committed to advancing modern web technologies, contributing to open-source communities, and developing distributed systems that can handle enterprise-scale challenges. Driven by the intersection of algorithmic problem-solving and system architecture, with a focus on creating user-centric applications that leverage cutting-edge technologies like AI/ML, real-time processing, and cloud infrastructure. Eager to contribute to teams that value technical excellence, collaborative innovation, and continuous learning in fast-paced, high-impact environments.

Leadership & Activities

Project Admin - GSSoC 2025: Selected as Project Administrator for VJ-Hostels project in GirlScript Summer of Code 2025, managing open-source contributions and mentoring participants

Lead Developer - Open Source Initiative: Directed a team contributing to open-source projects, focusing on full-stack web applications and AI-driven tools

Tech Team Lead - Multiple Internship Programs: Led development teams across three major internship projects, mentoring junior developers and ensuring project delivery

Coding Profiles: LeetCode | Codeforces | CodeChef

Declaration

I hereby declare that all information provided in this resume is accurate and true to the best of my knowledge and belief.