

# BALAJI RAO NADIPALLI

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## PROFESSIONAL SUMMARY

Full-stack developer (MERN) delivering responsive web and mobile applications end-to-end—from requirements and design to deployment and monitoring. Experience includes RESTful API development, **API security** (JWT, RBAC, input validation, rate limiting), **responsive design**, performance optimization, and cloud **deployment** (Vercel/Render/Google Cloud). Demonstrated **team leadership and cross-functional collaboration** with UX/design and QA to ship high-impact features with measurable results (faster load times, higher engagement, and improved reliability).

## CORE KEYWORDS

full-stack development MERN stack RESTful APIs API security JWT authentication RBAC responsive design CI/CD deployment scalability performance optimization MongoDB schema design pagination caching

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering (CSE)** Nov 2022 – Present  
*Maharaj Vijayaram Gajapathi Raj College of Engineering (MVGR), Vizianagaram, Andhra Pradesh* CGPA: 8.73

**Relevant Coursework:** Web Technologies, Full-Stack Development, Data Structures and Algorithms, DBMS, Operating Systems, Computer Networks, Software Engineering, Cloud Computing.

## PROJECTS

- **PacknGO – Tourist Guidance Platform | MERN (MongoDB, Express.js, React, Node.js)** Mar 2025  
Led full-stack development of a responsive tourism platform indexing destinations across 28 Indian states; **collaborated** with a UI/UX designer to refine IA and component library. Built **RESTful APIs** with Express, implemented **JWT authentication** and **RBAC**, server-side input validation, and rate limiting for **API security**. Optimized MongoDB queries and indexes to reduce P95 API latency by **32%**. Deployed on **Vercel/Render** with environment-based configs and health checks; improved page interactivity (LCP) by **28%**. *Industry: TravelTech.*
- **FastLane – Smart Emergency Alert System | Node.js, Express.js, React Native, MongoDB** Nov 2025  
**Project lead** for a public-safety app enabling real-time emergency-vehicle tracking within a **2 km** corridor using Google Maps APIs. **Collaborated** with mobile engineers and QA to ship reliable background location updates. Implemented **secure RESTful APIs** with JWT, device-level tokens, and scoped roles; added request throttling and payload validation to harden endpoints. Achieved **35%** reduction in simulated response time via route optimization and geo-fencing. Automated **CI/CD** with preview deployments and release notes. *Industry: Public Safety.*
- **Hall Management System | MERN** Jun 2025  
Built a role-based hall booking platform with **JWT authentication**, approval workflows, and audit logging; **collaborated cross-functionally** with department coordinators to refine requirements. Reduced scheduling conflicts by **50%** and increased booking efficiency by **40%**. Added pagination, search, and server-side filtering for scalability; containerized and **deployed** to Render with zero-downtime updates. *Industry: EdTech/Admin.*
- **Home Rental System | MERN & React Native** Sep 2025  
Delivered a responsive, cross-platform rental marketplace with listing management, wishlists, and real-time map search. Implemented **RESTful APIs**, **JWT/RBAC**, and secure media upload policies; improved query performance with compound indexes and caching to cut P95 response by **30%**. **Collaborated** with design on mobile-first **responsive design**, lifting session length by **35%**. Deployed web on **Vercel** and mobile via Expo EAS. *Industry: PropTech.*

## TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript (basic), Java, Python, C
- **Frontend:** React.js, React Native (Expo), HTML5, CSS3, Tailwind CSS, NativeWind, responsive design, form management
- **Backend:** Node.js, Express.js, RESTful API design, authentication & authorization (JWT, RBAC), validation (Joi/Zod), rate limiting, logging
- **Database:** MongoDB (schema design, indexing, aggregation), MySQL
- **DevOps/Deployment:** Deployment (Vercel, Render, Google Cloud), CI/CD (GitHub Actions), environment management, monitoring & alerts

- **Practices:** full-stack development, API security, performance optimization, scalability, testing (Jest basics), Agile/Scrum collaboration
- **Tools:** Git, GitHub, VS Code, Postman, Google Maps Platform
- **Certifications:** Infosys Frontend Developer; Cisco Python Essentials 1 & 2; NPTEL Cloud Computing; *In progress:* AWS Certified Developer – Associate

## EXPERIENCE

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- **Software Engineering Intern | Zidio Technologies** Jul 2025 – Aug 2025  
**Collaborated** with product, data, and QA to ship a data-visualization tool that ingests Excel and renders 2D/3D charts for decision support. Built **REST APIs** for dataset upload/validation, added **role-based access** for secure sharing, and implemented caching to speed report loads by **40%**. Packaged releases and **deployed** internal builds with versioned changelogs; authored runbooks and user guides.

## ACHIEVEMENTS AND ACTIVITIES

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- **Runner-Up, GITAM Hackathon 2025:** Built “FastLane,” a real-time emergency vehicle tracker using Firebase and Google Maps API; **coordinated team tasks** and delivered a working prototype within 24 hours.
- **Organizer, Sankalp 2025 (MVGR College):** Coordinated logistics for 720+ participants; **led a volunteer team** to improve event throughput and engagement.