BODA VAMSHI KUMAR

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PROFESSIONAL SUMMARY

Software Development Engineer with hands-on experience building **scalable full-stack applications** using **React.js, Node.js, Express.js**, and **MongoDB**. Proven track record of optimizing **API performance by 20%** and reducing load times by **33%**. **HackerRank Campus Ambassador** with strong foundation in **Data Structures, Algorithms**, and **system design**. Seeking **SDE opportunities** to leverage **problem-solving skills** and contribute to high-impact software solutions.

EDUCATION

Bachelor of Technology in Computer Science and Engineering   *Aug 2023 – May 2026*
Vaagdevi College of Engineering, Warangal | **CGPA: 8.0/10.0**

Diploma in Electrical and Electronics Engineering   *Apr 2020 – May 2023*
Mahaveer Institute of Science and Technology, Hyderabad | CGPA: 7.04/10.0

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), Python, SQL
Frontend: React.js, HTML5, CSS3, TailwindCSS, Responsive Design
Backend: Node.js, Express.js, RESTful APIs, WebSockets (Socket.io), JWT Auth, MVC Architecture
Databases: MongoDB, Supabase, MySQL
DevOps & Tools: Git, GitHub, Docker, CI/CD (GitHub Actions), Vercel, Postman
Coursework: Data Structures and Algorithms, Operating Systems, DBMS, Computer Networks, OOP

WORK EXPERIENCE

Software Development Intern - Full Stack — Edunet Foundation   *Nov 2024 – Jan 2025* |GitHub

- Architected **real-time music streaming platform** with **collaborative listening** and live playlists using **MERN stack**, supporting multiple concurrent users with synchronized playback
- Implemented **WebSocket connections** with **Socket.io** achieving **sub-100ms latency** for **real-time chat** between users and active user presence tracking
- Developed **RESTful APIs**, improving **API response time by 20%** through database query optimization and built secure **authentication system** with **JWT** and **RBAC** following **MVC architecture**, ensuring data security for 500+ users
- Optimized frontend by implementing **lazy loading** and reusable components, reducing page load time from 4.2s to 2.8s (**33% improvement**)
- deployed **containerized microservices** using **Docker** with automated **CI/CD pipelines** via **GitHub Actions**, reducing deployment time by **40%**

PROJECTS

User Management System – Full Stack   *GitHub | Live*
Node.js, Express.js, MongoDB Atlas, React (Vite), JWT, Docker, Jest, Render, Netlify
- Built **production-grade user management system** with **JWT authentication** and **RBAC** supporting admin and user roles with **pagination**
- Designed secure **RESTful APIs** for user registration, login, profile management, and admin operations following **MVC architecture** with **automated testing** using **Jest and Supertest**, ensuring API correctness
- Containerized backend using **Docker** and automated **CI pipelines** with **GitHub Actions**; deployed on **Render** (backend) and **Netlify** (frontend)

SkillNavigator – Job & Skill Matching Platform   *GitHub | Live*
React.js, Supabase, TailwindCSS, Vercel
- Built **job-matching platform** with **role-based authentication** using **Supabase Auth**, supporting workflows for 100+ recruiters and 300+ job seekers
- Developed **responsive dashboards** for job management, reducing page load time from 2.1s to 1.5s through **API optimization** and **React state management**
- Implemented **lazy loading** and memoization, improving **Lighthouse performance score** from 72 to 91 and automated deployment using **Vercel** with **CI/CD pipelines** for zero-downtime updates

ACHIEVEMENTS & CERTIFICATIONS

- **HackerRank Campus Ambassador** – Selected to represent HackerRank, promoting coding culture and competitive programming on campus
- **Full-Stack Development Certification** – AICTE | **Python Programming** – Cisco | **MongoDB Atlas Essentials** – MongoDB University