BURGULA KRISHNA VAMSHI

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SUMMARY

Computer Science graduate with hands-on experience building production-ready full-stack applications using the MERN stack and Next.js. Strong in both frontend development with React and backend systems using Node.js, Express, and databases. Experienced in API design, real-time communication, secure authentication, and encrypted data handling. Seeking an SDE-1 or Full-Stack Engineer role in a product-driven engineering team.

TECHNICAL SKILLS

Languages:	C++, JavaScript, Python
Frontend:	React, Next.js, HTML5, CSS3, Tailwind CSS
Backend:	Node.js, Express.js, REST APIs, GraphQL
Databases:	MongoDB, MySQL (Oracle SQL Certified)
Real-Time Systems:	WebSockets
Security:	AES-256 Encryption, JWT Authentication, OAuth Fundamentals
Tools:	Git, Postman, Linux, VS Code, Vercel

PROFESSIONAL EXPERIENCE

Poditivity — Oct 2024 – Apr 2025
Software Engineering Intern — *Hybrid*

- Developed cross-platform UI components using React Native and React Navigation for improved usability
- Integrated Apollo Client with GraphQL APIs to enable real-time data updates across user sessions
- Built dynamic profile screens supporting multiple user roles and configurations
- Developed and deployed responsive pages using Next.js with a focus on performance and accessibility

DRDL Hyderabad — Mar 2024 – May 2024
Full-Stack Developer Intern — *On-site*

- Improved application performance by approximately 30% through frontend and backend optimizations
- Optimized data handling workflows using structured JSON processing, reducing latency by 25%
- Redesigned frontend interfaces using HTML and CSS to enhance usability and accessibility
- Implemented secure role-based authentication and authorization mechanisms
- Developed RESTful backend services using Node.js and Express.js

EDUCATION

Bachelor of Engineering in Computer Science — 2021 – 2025
MVSR Engineering College, Osmania University — CGPA: 8.11 / 10.0
Relevant Coursework: Data Structures, Database Systems, Software Engineering, Web Technologies, Computer Networks
Certifications:
- Oracle Database SQL Certified Associate – 2023
- IBM Data Science Professional Certificate – 2023

TECHNICAL PROJECTS

Client-Side Encrypted Activity Monitoring System — Dec 2024 – Apr 2025
MERN Stack, Python, Security — *Academic Project*

- Built a full-stack MERN application to securely collect and visualize user activity data in a controlled academic environment
- Implemented client-side AES-256 encryption and SHA-256 hashing to ensure sensitive data was never stored or transmitted in plaintext

- Designed MongoDB collections for encrypted data storage and controlled server-side analysis
- Implemented JWT-based authentication and role-based access control for user and admin dashboards
- Developed a Python-based data capture module using pynput with multithreading support
- Created real-time dashboards to visualize activity trends and system metrics

Live Real-Time Polling Platform   **2025**
MERN Stack, WebSockets   *Personal Project*

- Developed a real-time polling application allowing users to create polls and vote with instant result updates
- Implemented WebSocket-based communication to synchronize votes across concurrent clients
- Designed a responsive UI using React and Tailwind CSS optimized for multiple screen sizes
- Built RESTful backend services using Node.js and Express.js for poll management
- Deployed the application on Vercel with environment-based configurations

LEADERSHIP AND ACTIVITIES

- **Student Coordinator / Deputy Director** – Alumni Relations, Computer Science Student Association Dec 2024 – Apr 2025
  Organized alumni networking events connecting 100+ students with industry professionals
- **Conference Coordinator** – DAPCOM International Conference   Feb 2024 – Mar 2024
  Coordinated logistics and communications for 300+ attendees across multiple technical sessions
- **Volunteer Treasurer** – Street Cause MVSR
  Led fundraising initiatives raising 50,000+ for social welfare programs