

HANUMANTHU BUDDHA

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PROFESSIONAL SUMMARY

Full Stack Software Engineer specializing in real-time systems and AI-integrated platforms, with 3+ years of experience building production-grade applications serving 10,000+ users. Proficient in Node.js, React.js, and distributed backend architectures using Redis, BullMQ, and Socket.IO. Delivered measurable results including 40% latency reduction and 35% API performance improvement. Adept at owning features end-to-end — from system design to CI/CD deployment — in fast-paced Agile environments.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, C++

Frontend: React.js, Next.js, React Native, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, RESTful APIs, WebSockets (Socket.IO), FastAPI

Databases: MongoDB, MySQL, Redis

System Design: Distributed Systems, Event-Driven Architecture, Caching, Asynchronous Processing, API Design, Performance Optimization

DevOps & Tools: Docker, CI/CD Pipelines, Git, GitHub, Nginx, Linux, AWS, Azure, Postman

AI & Integrations: OpenAI APIs, Claude API, Prompt Engineering, AI-based Evaluation Systems

PROFESSIONAL EXPERIENCE

Full Stack Developer

March 2023 – Present

Key Contributions:

- Engineered scalable full-stack applications using Node.js, React.js, and MongoDB, serving 10,000+ users with 99.9% uptime across production environments.
- Reduced system response latency by 40%** by architecting event-driven backends with Redis and BullMQ for asynchronous job processing.
- Delivered real-time collaboration features using Socket.IO for live interview sessions, push notifications, and multi-user workflows, supporting 500+ simultaneous connections.
- Improved API response times by 35%** by implementing Redis caching layers, cutting database query load significantly.
- Secured multi-role platforms (Admin, Staff, Student) by implementing JWT-based authentication and role-based access control (RBAC).
- Refactored MongoDB schemas and introduced compound indexing strategies, cutting average query execution time by 25%.
- Streamlined release cycles by containerizing applications with Docker and configuring automated CI/CD pipelines, enabling zero-downtime deployments across 3+ production services.
- Partnered with product and design teams to convert requirements into production-ready features, shipping 15+ major releases on schedule.
- Mentored 5 junior developers through structured code reviews and pair programming sessions, reducing PR review cycles by 30%.

PROJECTS

AI-Powered LSRW Communication Assessment Platform

OpenAI | Next.js | Node.js | MongoDB

- Built a modular AI-driven assessment platform to evaluate student proficiency across Listening, Speaking, Reading, and Writing (LSRW) skills, adopted by 3+ educational institutions.
- Developed 20+ interactive language testing modules including dictation, comprehension, storytelling, response selection, and speaking tasks.
- Automated AI-based grading for speech and written responses, reducing manual evaluation time by 60% while maintaining hybrid review support for subjective tasks.

- Engineered test orchestration and analytics pipelines that processed 1,000+ student assessments per session with real-time reporting for educators.

Scalable Real-Time Interview Platform (Micro-SaaS)*Node.js | Redis | BullMQ | Socket.IO | MongoDB | ReactNative*

- Architected a real-time interview backend supporting 200+ concurrent sessions using Socket.IO, achieving sub-100ms event delivery latency.
- **Cut evaluation pipeline response time by 40%** through BullMQ and Redis-based asynchronous job processing.
- Reduced API response times by 35% through Redis caching of session state and frequently accessed interview data.
- Implemented role-based authentication for Admin, Interviewer, and Candidate workflows, securing access across all platform tiers.
- Designed event-driven architecture handling 5,000+ real-time events per session, including code execution results, proctoring signals, and live feedback streams.
- Automated deployments across 4 microservices using Docker and CI/CD pipelines, reducing deployment time from 45 minutes to under 10 minutes.
- Optimized MongoDB indexes and query plans, reducing average document retrieval time by 25%.

EDUCATION

Bachelor of Technology (B.Tech) – Electronics and Communication Engineering*2019 – 2023*

Aditya Engineering College

CERTIFICATIONS

- MongoDB Certified Developer – Associate | Issued by MongoDB, Inc. (2025)

ACHIEVEMENTS

- Mentored 700+ students in Full Stack Development (MERN stack, React Native), with 85%+ completing their capstone projects and securing developer roles.
- Led development of 6 production-grade applications, delivering all projects on time with zero critical post-launch defects.
- Achieved 40% improvement in application performance across projects through backend optimization, caching strategies, and efficient database design.
- Architected and deployed systems handling 10,000+ concurrent users in real-world production environments with high availability.