Bodarni Furqan

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Objective

Computer Science undergraduate (2027) with strong DSA fundamentals and hands-on experience building and deploying full-stack systems with TypeScript, Node.js, PostgreSQL, and AWS, including real-time WebSocket pipelines. Solved 550+ LeetCode problems with a contest rating of 1,715.

Technical Skills

Languages:	TypeScript, JavaScript, C++
Frontend:	React, Next.js, Tailwind CSS
Backend:	Node.js, Express.js, REST APIs, WebSockets, JWT Auth
Databases:	PostgreSQL, MongoDB, Prisma ORM
DevOps/Cloud:	AWS, Docker, Git, Vercel, Railway
CS Fundamentals:	DSA, OOP, OS, DBMS, Computer Networks

Projects

DevPrep — AI-Powered Developer Interview Platform

Live Demo

TypeScript, Next.js (App Router), Node.js, AWS, Gemini API, Groq Whisper, Deepgram Aura-2, WebSockets, pnpm Monorepo

- Architected and deployed a full-stack AI interview platform integrating 5+ services/APIs for real-time voice interviews, owning the system from backend architecture through cloud deployment.
- Engineered a real-time voice pipeline using WebSockets, Groq Whisper, Gemini streaming, and Deepgram Aura-2, achieving 4.06s end-to-end latency from user speech termination to first AI audio playback.
- Deployed the WebSocket server on AWS to serve real-time voice sessions in production.

Brainly AI — AI-Powered Second Brain

Live Demo

TypeScript, Next.js, Node.js, PostgreSQL, Prisma ORM, JWT, pnpm Monorepo

- Engineered a multi-stage RAG pipeline — HyDE query rewriting, embedding generation, vector retrieval, cross-encoder reranking, and query expansion — averaging 6.7s end-to-end across production queries.
- Designed the PostgreSQL/Prisma relational schema and data retrieval patterns for the knowledge system.
- Built a service-oriented backend architecture with typed RESTful APIs consumed by a Next.js frontend, structured as a pnpm monorepo with shared TypeScript types and JWT authentication.
- Independently deployed the backend to Render and frontend to Vercel using Git-based CI workflows.

Horizon — Autonomous AI Coding Agent

Live Demo

TypeScript, Next.js 16, Vercel AI SDK, E2B Sandboxes, Playwright, MCP, Zod, Vitest

- Built an autonomous coding agent with 10 tools and SSE streaming that clones a GitHub repo, plans, and edits code in isolated E2B Linux VMs (25 steps per run, 2 sandboxes per session with noVNC preview).
- Engineered a 4-provider LLM router (Anthropic, OpenAI, Google, Cerebras) with priority fallback, BYOK keys, and cheaper-tier routing for Fast Apply edits, guarded by 5 checks against corrupted file writes.
- Wrote 45 Vitest tests (6 files), including SSRF defense blocking 10+ IP-notation bypasses.

Open Source

- **AOSSIE — DebateAI** (repo): 2 merged PRs. PR #593 fixed a Debate Room crash on refresh that lost chat history (session restore). PR #663 added missing mobile nav links, a theme selector, and fixed a broken route.

Competitive Programming

- **DSA:** Solved 550+ LeetCode problems across graphs, DP, trees, and binary search.
- **LeetCode Contests:** Rating 1,715 (top 13.08% globally) across 23 contests; ranked 1,250 of 31K+ in a recent Biweekly Contest (top 4%).

Education

Bachelor of Computer Applications (BCA) — Karnataka University, Dharwad **Expected: 2027**
Shree Guru Sudhindra College, Bhatkal *CGPA: 8.14*