ADITHYA A

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EDUCATION

National Institute of Technology, Karnataka   Surathkal, Mangalore
Bachelor of Technology in Information Technology, GPA: 7.44/10.0   *Aug. 2023 – May 2027*
Class XII: 95% (Karnataka State) — Class X: 94% (ICSE)

EXPERIENCE

Open Source Contributor   May 2025 – June 2025
IEEE Summer of Code   *Remote*
- Ranked in the top 10% nationwide on a competitive open-source leader-board among 100+ contributors.
- Migrated basic Rust modules to TypeScript for TensorZero LLM infrastructure platform
- Delivered 3,500+ lines of code for FinTechForge education module using full-stack implementation
- Architected scalable and maintainable foundational codebase for DebateMate platform following SOLID principles and clean code practices

Web Developer Intern   April 2024 – August 2024
YHILLS EdTech   *Remote (Mentored Project)*
- Delivered a MERN-stack restaurant discovery platform with structured data flow and fast search.
- Orchestrated server-side rendering and RESTful API integration to optimize user experience
- Designed secure authentication system using JWT tokens and established scalable login workflows
- Optimized state management using React Context API and Reducer pattern for State Management

PROJECTS

CODESYNC - Collaborative Code Editor | GitHub | Live   2025
- *Technologies:* Next.js, Convex, Liveblocks, Monaco Editor, Gemini API, WebSocket
- Engineered real-time collaborative coding environment with integrated whiteboard and AI chat using Gemini API
- Optimised synchronisation latency by 30% using test data via Liveblocks metrics and convex reactive database.
- Deployed throttling and conflict-free resolution, reducing editing conflicts by 50%.
- Designed role-based permission system allowing room owners to manage user access and privileges

HACKVERSE - Hackathon Management Platform | GitHub | Live   2025
- *Technologies:* Next.js, NestJS, PostgreSQL, Prisma ORM, Passport.js, Redux, RESTful APIs
- Delivered comprehensive hackathon organisation platform with role-based access control using JWT
- Orchestrated a normalized database schema with Prisma ORM, reducing query times by 35%.
- Architected scalable full-stack architecture with Next.js frontend and NestJS backend following SOLID principles
- Implemented Redux for global state management and created RESTful APIs for seamless data flow

CRAB-CLEAN - Rust Project Management CLI | GitHub | Crates.io   2025
- *Technologies:* Rust, CLI, File System APIs, Crates.io, Error Handling, Documentation
- Created command-line utility for cleaning and managing Rust project directories with 540+ downloads
- Deployed efficient file system operations using Rust's standard library with proper error propagation
- Implemented the SHA256 algorithm, achieving a 90% speed improvement through optimization.
- Published to crates.io registry and maintained documentation for open-source community

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, C++, Rust
- **Frontend:** React, Next.js, HTML5, CSS3, Redux
- **Backend:** Node.js, Express.js, NestJS, REST, Microservices
- **Databases:** SQL, PostgreSQL, MongoDB, Redis, PrismaORM
- **Cloud/DevOps:** AWS, Firebase, Docker, Vercel
- **Tools:** Git, GitHub Actions, Jest, Postman

ACHIEVEMENTS & RECOGNITION

- **Open Source**: Achieved 11th place on the pan-India leaderboard, among over 100 contributors
- **DSA**: 1435 Rating (Top 15%) and solved 150+ problems on Leet Code across Dynamic Programming, Graph, Trees
- **Publications**: Published Rust CLI tool with 540+ downloads on crates.io registry
- **Leadership**: Led multiple full-stack development projects with cross-functional collaboration