

Ricky Vishwakarma

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Introduction

Final-year Computer Science student focused on backend engineering, AI systems, and developer tooling. Built real-time event-driven systems, AI-powered debugging platforms, authentication infrastructure, and production-grade web applications using FastAPI, Next.js, PostgreSQL, and LLMs. Solved 800+ DSA problems and contributed to open-source projects

Education

United University , BTech in Computer Science	Aug 2022 – June 2026
• CGPA: 8.6/10.0	
Kaushambi Public School , CBSE Class-12th	Aug 2018 - March 2020
• Percentage : 74%	
Little Blossoms Convent School , CBSE Class-10th	Aug 2016 - March 2018
• Percentage : 72%	

Experience

SDE - SOMOM.inc , India – remote	January 2026 – March 2026
- Integrated an open-source AI framework into a financial automation platform, enabling automated document-processing workflows. - Designed backend architecture for AI-powered workflows and deployment pipelines. - Built a WhatsApp-style authentication system with secure verification flows. - Collaborated with distributed engineering teams to adapt open-source components for production environments.	

Achievements

- Contributed production-quality code to open-source projects.
- Solved 800+ DSA problems across LeetCode, Codeforces, and CodeChef.
- Achieved a rank of 1180 in the Squarepoint Challenge in 2025 (Codeforces)
- Top Triple-Digit Rank in IIT Madras Reverse Coding Contest 2025.
- Secured rank of 60 in CodeChef Starters 196 contest
- Secured rank of 744 in leetcode weekly contest 504

Projects

BugZero	BugZero-LIVE
- Built AI-powered debugging platform that analyzes GitHub repositories, extracts code context, and generates automated patches using LLMs. - Designed multi-stage pipeline: static analysis → context extraction → patch generation → validation - Architected scalable backend using Next.js + PostgreSQL + Prisma - Tools Used: Next.js 16 , React 19 , TypeScript , Claude AI , PostgreSQL , Prisma , GitHub API	
Nomichi Trip Desk — Full-stack lead-management CRM	Nomichi-TripDesk-LIVE
- Built a public enquiry site, an authenticated admin pipeline, and a no-code trips CMS on one PostgreSQL schema; enforced data integrity with enums/constraints and secured access with Row Level Security. - Used Next.js Server Actions to keep all secrets and writes server-side, and added a server-side AI assistant with a multi-provider fallback (Anthropic → Gemini → template). - Tools Used: Next.js, TypeScript, Supabase/PostgreSQL, Vercel	
Folio — Real-Time Collaborative Editor	Folio-LIVE
Built a real-time multi-user editor using CRDTs (Yjs) over WebSockets — conflict-free merging, live cursors,	

presence.

- Scaled horizontally with stateless Socket.io servers + Redis pub/sub relay, sticky-session ingress, and a Kubernetes HPA.
- Shipped comments, version history, Postgres full-text search, folders, public share links, @-mentions, and an offline PWA.
- Deployed on Render (Postgres + Redis + WebSockets) from a TypeScript monorepo with CI-gated production deploys.
- Tools Used: React, TypeScript, Node.js, Socket.io, Yjs (CRDT), PostgreSQL, Redis, Docker, Kubernetes

Technologies

Languages : Java, C++ , JavaScript, Typescript, Python

Frameworks and Libraries : Next.js, React, Node.js, Express, FastAPI, LangChain, Tailwind CSS.

Tools and Platforms : Git/GitHub, Docker, VS Code, Linux, Postman, Vercel, Microservices

Cloud and DevOps : Docker, AWS, GitHub Actions, CI/CD

Databases : Databases: PostgreSQL, MySQL, Prisma, supabase

AI and Specialized : LLMs (Claude, OpenAI), AI Agents, RAG Pipelines,

Coding Profile

LeetCode : stephen76/Profile Best Rank- 845 out of 21,000+ (Weekly contest 466)

CodeChef : stephen76/Profile Best Rank- 26 out of 13,000+ (Weekly contest 219)