

Ali Mehdi Mirza

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SUMMARY

Computer Engineering student at Vidyalankar Institute of Technology (CGPA: 9.95/10) with strong expertise in backend engineering, authentication systems, distributed system fundamentals, and open-source development. Experienced in designing secure REST APIs using Node.js, TypeScript, PostgreSQL, MongoDB, Prisma, and Redis. Active contributor to Social Summer of Code and FOSSASIA, seeking a Software Engineering Internship to build scalable systems and solve real-world engineering problems.

EDUCATION

Vidyalankar Institute of Technology (VIT), Mumbai

CGPA: 9.95 / 10.0

B.E. Computer Engineering Aug 2024 – May 2028

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Java, SQL

Backend: Node.js, Express.js, REST APIs, JWT, OAuth2, Prisma, Mongoose

Databases: PostgreSQL, MongoDB, Redis

Frontend: React.js, HTML5, CSS3

Devops: Docker, GitHub Actions, Railway, Vercel

Tools: Git, GitHub, Postman, OpenAPI/Swagger

Concepts: Authentication, Authorization, RBAC, Rate Limiting, System Design, REST Architecture, Caching, API security

PROJECTS

AuthForge – Authentication & Authorization Service

May – Jul 2026

Node.js · TypeScript · Express · PostgreSQL · Prisma · Docker · Redis

ali0786mehdi/AuthForge

- Architected a secure REST API with JWT access/refresh token(15 min) rotation for secure authentication, OAuth2, RBAC, and 2FA/TOTP; containerized with Docker and documented via OpenAPI/Swagger
- Implemented Redis-backed sessions, rate limiting, Zod input validation, and email verification across a 6-phase modular architecture

Mirza Footwear – E-Commerce Backend

Jan – Aug 2026

Node.js · TypeScript · Express · MongoDB · Mongoose · Razorpay · Cloudinary

ali0786mehdi/mirza-footwear-ecommerce

- Designed and implemented **15 backend modules** including authentication, product catalog, orders, payments, reviews, and admin management.
- Diagnosed and remediated Mongoose 8.x breaking changes, Zod v4 migration issues, and TypeScript 5.x configuration bugs, restoring full system stability

AI-Powered Study Planner – Full Stack App

Apr – May 2026

React · Node.js · Express · MongoDB · Gemini API · Deployed: Railway + Vercel

ali0786mehdi/AI-Study-Planner

- Independently developed a MERN application integrating Google Gemini API to generate personalized, AI-driven study plans
- Addressed Railway cold-start latency via keep-alive pings and exponential backoff retry logic, achieving consistent uptime across 100% of test sessions

BrainHub – Browser-Based Cognitive Game Suite

May 2026

Vanilla JavaScript · HTML5 Canvas · Web Audio API · localStorage

ali0786mehdi/Reaction-Tester

- Developed 4 zero-dependency cognitive mini-games (Reaction Tester, Mental Math, Memory Matrix, Aim Trainer) with Canvas API result charts and Web Audio sound design

Open Source Contributions

Algo-Infinity-Verse (Eshajha19)

Jun 2026

Vanilla HTML/CSS/JS DSA Learning Platform

- Shipped 4 features via PR-based code review workflows: Interview Heatmap, Future Self Simulator (SM-2 spaced repetition), Edge Case Generator (Piston API), and Learn Dynamic Programming module

EXPERIENCE

Freelance AI Trainer

May - July 2025

Remote – Contract

- Reviewed over 500 AI-generated responses spanning software engineering, reasoning and coding tasks.