

Manan Gandhi

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Security-Focused Backend Engineer • 7× Hackathon Winner • Open Source Enthusiast

Summary

Backend engineer specializing in **backend software security**, **mobile app development**, **trading infrastructure**, and **secure execution environments**. Experienced building **event-driven systems**, **containerized sandbox platforms**, and **developer tooling**. Currently developing **market-data processing** and **trade execution infrastructure** at IkiQuant Technologies. **Open-source software maintainer/contributor**, **bug bounty hunter**, and **7x hackathon winner**.

Experience

IkiQuant Technologies

Mid Frequency Trading Intern

Mumbai, India

Mar 2026 to Present

- Engineering and maintaining robust trading infrastructure to support mid-frequency trading operations and strategy execution.
- Developing **real-time monitoring dashboards** to visualize market data, system health, and performance metrics for live trading environments.

Sykes & Rays Equities

Software Engineering Intern

Mumbai, India

Dec 2025 to Jan 2026

- Developed automated **algorithmic trading systems** using Zerodha Kite APIs and OpenAlgo.
- Fixed a critical issue in the OpenAlgo Zerodha Connector, improving system stability under concurrency and earning maintainer approval.
- Built **ETL pipelines** for post market-data processing, reducing the traders' manual effort by 90%

Projects

Remote Code Execution System

Distributed Code Execution Sandbox

[GitHub](#)

- Built an open-source **remote code execution platform** supporting multi-language sandboxed execution for **200+ users**.
- Implemented **Docker runtime isolation** and **Redis-backed task queues** deployed on Azure infrastructure.
- Optimized execution performance using **container benchmarking** and asynchronous execution pipelines.

Adeon

Open Source Developer Tooling Platform

[GitHub](#)

- Developed **AI-powered code analysis pipelines** for test generation, documentation, PR reviews, and vulnerability analysis.
- Reached **Top 35 globally** among 1,500+ projects at the 100X Engineers Buildathon.

FluxGate

Self-Hosted Continuous Deployment Platform

[GitHub](#)

- Built a **GitOps deployment system** that auto-rebuilds and deploys applications from GitHub webhooks.
- Implemented **Docker-based sandboxing** for secure multi-app isolation on shared infrastructure.
- Designed workflows supporting multiple branches such as **dev, staging, and production deployments**.
- Supports **natural language powered infrastructure management**.

Multiplayer Chess Platform

Real-Time Multiplayer System

[GitHub](#)

- Built a real-time multiplayer chess system using **Flutter, Node.js, and Socket.io**.
- Used **Redis Pub/Sub** for low-latency event distribution and batched persistence.
- Integrated **StockFish engine** for post-game analysis and move exploration.

MPSTME OnTrack

Campus Navigation and Alert Platform

[Website](#)

- Built a **campus navigation system** for MPSTME students to navigate easily through the university.
- **Offline First Application**, with over-the-air map updates and advertisement delivery for upcoming university events and important announcements.
- Developed using Flutter and deployed on Android and iOS with **1,500+ downloads**.

Achievements

- **7× Hackathon Winner** across national and international competitions, including Supabase Launch Week Hackathon.
- Responsibly disclosed multiple **high-severity security vulnerabilities** in production systems including Matiks, Unstop, and iicpc.com.
- Recognized publicly by OpenAlgo maintainer Rajandran R for **contributing a critical fix to the Zerodha Connector**. Featured on LinkedIn and X ([LinkedIn](#), [X](#)).

Technical Skills

- **Languages:** C++, Python, TypeScript, SQL, JavaScript, Java, Dart, Bash
- **Infrastructure & Data:** Docker, Redis, Apache Kafka, ClickHouse, Linux, AWS, Azure
- **Backend:** Node.js, Express.js, FastAPI, Django, Flask
- **Frontend / Mobile:** React.js, Next.js, Flutter

Education

Mukesh Patel School of Technology Management and Engineering

B.Tech in Computer Engineering

Mumbai, India

Expected Graduation: 2028

Kapol Vidyanidhi International School

ICSE

Mumbai, India

Graduated: 2022