

# Roshan Sharma

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## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, Go

**Frameworks & Libraries:** Node.js, FastAPI, Flask, React, Next.js, React Native

**APIs & Communication:** REST APIs, GraphQL, WebSockets, Webhooks

**Databases:** PostgreSQL, MySQL, MongoDB

**Cloud & Backend Services:** AWS, Firebase, Supabase

**DevOps & Tooling:** Docker, Git, Linux

## EXPERIENCE

### • ToolSnitch

Sep 2024 – Nov 2024

*Full Stack Developer*

Remote

- Engineered and delivered **10+ user-facing features** using **Next.js**, including appointment booking flows, appointment tables, digital receipts, and map-based shop discovery, improving navigation **efficiency by 30%**.
- Designed and built core components of the **seller portal** used by **30+ repair shops**, enabling appointment management, automated receipt generation, and transactional email workflows, reducing manual **coordination by 40%**.
- Collaborated with backend engineers on a **Node.js + AWS** backend, contributing to **API integrations, role-based access control, and performance optimizations** across user, seller, and admin modules.

### • GenZFit

Sep 2025 – Nov 2025

*Mobile App Developer*

Remote

- Designed and shipped a production-ready fitness and nutrition mobile app using **React Native + TypeScript**, supporting **2 distinct roles** (users and dietitians) and core daily engagement workflows.
- Integrated **secure authentication, real-time chat, push notifications**, and diet-plan assignment using **Firebase**, supporting **100+ concurrent interactions** during peak usage.
- Integrated **Razorpay subscriptions** with **Supabase-based logging**, enabling automated tracking of subscription states, renewals, and payment events, and prepared builds for **Play Store and App Store via EAS**.

## PERSONAL PROJECTS

### • ModelFlow – No-Code ML Pipeline Builder

Aug 2025

*Personal Project*

- Designed a visual no-code ML platform enabling users to compose **end-to-end pipelines (data ingestion → pre-processing → training → evaluation)** via a **drag-and-drop DAG interface**, supporting dozens of configurable pipeline stages without writing code.
- Architected **containerized, sandboxed microservices** for dataset processing and model training using **Docker**, enabling isolated execution, reproducibility, and parallel pipeline runs while enforcing resource and security constraints.
- Implemented an **agent-driven recommendation layer** that analyzes dataset characteristics and pipeline structure to suggest **preprocessing techniques, model families, and hyperparameter ranges**, and generates real-time executable Python code for transparency and production handoff.

### • One Line One Shot – Real-Time Coding Competition Platform

Nov 2025

*Society Event Project*

- Built a scalable real-time coding competition platform using **Next.js, Node.js, MongoDB, Redis, and WebSockets**, successfully used by **150+ participants** during live contests.
- Designed a **secure, containerized code execution pipeline** using **Docker** and **Judge0**, supporting concurrent multi-language execution with strict time and memory limits.
- Implemented **anti-cheat mechanisms** (tab-switch detection, automated admin alerts) and a **real-time leaderboard**, enabling **low-latency score updates** and relative ranking during contests.

### • Matchloop – High-Performance Concurrent Task & Event Processing System

Dec 2025

*Personal Project*

- Architected and implemented a **high-throughput concurrent matching engine**, achieving **2.5M intents/sec throughput** on a single engine instance with **100% match accuracy** under steady-state load.
- Optimized the event loop and matching pipeline to achieve **sub-millisecond matching latency (P50: 150–180 µs)** and **end-to-end P99 latency under 9 ms**, with **low tail variance (P99.9)**.
- Engineered the system to remain **queue-dominated rather than compute-bound** at scale, while instrumenting and analyzed GC behavior and allocation patterns to guide future memory optimizations.

## EDUCATION

### • Netaji Subhas University of Technology, New Delhi

Expected 2028

*B.Tech — Computer Science and Engineering*

CGPA: 8.67

### • Delhi Public School

2024

*Higher Secondary Education, Delhi*

Percentage: 93.2%