

ROHIT GANGULY

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PROFESSIONAL SUMMARY

Computer Science undergraduate (Bachelor of Technology, 2027) with 10 months of software engineering internship experience shipping production web, mobile, and backend systems in TypeScript, Python, and Go.

CORE SKILLS

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

Frontend: React.js, Next.js, React Native (Expo), Redux Toolkit, Tailwind CSS, HTML5, CSS3

Backend: Node.js, NestJS, Express.js, FastAPI, Flask, REST APIs, gRPC, WebSockets (Socket.IO), JWT, OAuth 2.0

Databases & AI: PostgreSQL, MongoDB, Redis, Neo4j, Qdrant, LangChain, OpenAI and Anthropic APIs, Pandas

DevOps & Tools: Docker, Git, GitHub Actions, Azure DevOps, CI/CD, k6, Prometheus, Grafana, New Relic, Linux

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Betatest Solutions Pvt. Ltd.

Nov 2025 – Apr 2026

React Native (Expo), Next.js, NestJS, TypeScript, PostgreSQL, Redis, Azure DevOps, k6, New Relic

- Shipped 4 production features (settings, profile editing, biometric authentication, image upload) in React Native to live iOS and Android users, merging 55+ pull requests in a TypeScript mono-repo.
- Designed modular REST APIs in NestJS for activity filtering, CSV export, soft-delete cleanup, and cron-scheduled jobs.
- Engineered an end-to-end password reset and one-time password (OTP) flow, plus Implemented i18n support (English, PT-BR) and push/email notification pipelines, extending the product to multi-region users..
- Hardened reliability with schema migrations and k6 load tests; shipped via Azure DevOps CI/CD, monitored in New Relic, merged 55+ PRs across mono-repo.

Full-Stack Developer Intern, Coding Jr

Jun 2025 – Aug 2025

Visual Studio Code Extension API, Next.js, Node.js, Redis, Figma

- Built Planto, an AI coding assistant shipped as a Visual Studio Code and Eclipse extension, owning chat interface, agent mode, image-to-code, and Figma-to-code workflows end to end and redesigned the Planto marketing site with Figma-driven UI/UX improvements.
- Developed an @file workspace-attachment system backed by Redis caching for low-latency large language model (LLM) responses, and contributed inline editing and formatting features to an AI resume builder.

PROJECTS

DevPulse – AI-Powered Developer Intelligence Platform

github.com/psychic-coder/DevPulse

Next.js 14, NestJS, TypeScript, PostgreSQL, TypeORM, Redis, Socket.IO, Python (Flask), Docker Compose

- Architected a 3-service containerized monorepo (Next.js front end, NestJS API, Flask analytics) that ingests full GitHub history via OAuth 2.0 and streams live sync progress over Socket.IO, with Redis caching for sub-second dashboard loads.
- Delivered OS Finder, converting natural-language queries into GitHub Search filters via an LLM and ranking repositories by a custom New Contributor Friendliness score; added AI weekly digests and 1–10 pull-request scoring.

CodeSage – Graph-Augmented Repository Intelligence Platform

github.com/psychic-coder/CodeSage

Python 3.11, FastAPI, Neo4j, Qdrant, LangChain, tree-sitter, Celery, PostgreSQL, Next.js, Docker

- Combined Qdrant vector retrieval (1,536-dimension embeddings) with 3-hop Neo4j graph traversal to predict file-level change impact across 10+ programming languages at 87% accuracy.
- Constructed an async tree-sitter parsing pipeline that builds a typed Neo4j dependency graph, ingesting 1,000-file repositories in under 3 minutes and scoring risk by NetworkX centrality and cyclomatic complexity on Celery workers.

ShardRoute – Self-Healing Distributed Rate Limiter

github.com/psychic-coder/SharedRoute

Go, Redis (Lua), gRPC, Docker Compose, Kubernetes, k6, Prometheus, Grafana

- Implemented a hybrid token-bucket and sliding-window limiter as one atomic Redis Lua script, removing read-then-write race conditions across a 3-node cluster served over HTTP and gRPC.
- Reduced 99th-percentile latency 81% under k6 load using per-node in-memory counters reconciled with Redis every 100 milliseconds, holding 96.8% uptime in a chaos test that kills Redis mid-load.

EDUCATION

Bachelor of Technology, Computer Science and Engineering, Manipal University Jaipur

Aug 2023 – May 2027

GPA 9.06/10, Dean's List. Coursework: Data Structures and Algorithms, Operating Systems, Databases, Networks

CERTIFICATIONS AND AWARDS

Awards: 2nd Runner-Up, BITS Pilani x Postman API Hackathon 4.0 (1,000+ teams); Student Excellence Award (3 times).

Certifications: Design and Analysis of Algorithms, NPTEL (Apr 2025); Red Hat System Administration I and II, RH124 and RH134 (Mar 2025); Database Programming with SQL, Oracle (Nov 2024).