Rahul Gheek

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Summary

Backend-focused Computer Science student passionate about building scalable and real-time applications. Experienced in developing production-grade systems using Java, Spring Boot, WebSockets, and microservice-based architectures, with strong foundations in RESTful API design and backend engineering. Interested in solving complex problems through clean, efficient, and maintainable software solutions.

Education

Chitkara University 2024 - 2028

B.E. Computer Science and Engineering | ***GPA: 9.90/10.0***

Skills

Backend: Java (Spring Boot, Spring Security, JPA), Node.js (Express)

Databases: MySQL, PostgreSQL, MongoDB

Languages: Java, C, JavaScript, Python

Tools: Git, GitHub, Postman, Docker, Redis, Kafka, AWS (Basic)

Concepts: REST APIs, Microservices, JWT Authentication, WebSockets

Projects

O One Outpost | *Java, Spring Boot, Docker, WebSockets, MongoDB, AWS (EC2)*

- Architected a Spring microservices code execution engine using a warm Docker pool, bypassing disk I/O to achieve ∼1200ms execution latency.
- Built a hybrid HTTP/WebSocket event pipeline for real-time match broadcasting and cross-client synchronization, enabling low-latency game state updates and consistent state across connected clients.
- Deployed the backend microservices environment on AWS EC2 for scalable and reliable performance.

SkillSync AI | *Java, Spring Boot, Spring Security, MySQL*

- Built an AI orchestrator within a modular monolith for intelligent student matching, dynamic roadmap generation, and role prediction.
- Developed robust backend authentication utilizing secure user role entities, access control, and auditing listeners.
- Configured and deployed the scalable application environment on Render for continuous availability.

WhyQL | *Java 21, Spring Boot 4, Spring AI, GraphQL, Kafka, PostgreSQL, Redis, Next.js*

- Built a full-stack AI analytics platform translating natural-language questions into validated SQL across PostgreSQL and MySQL, delivering charts, tables, and AI-generated analysis.
- Designed a 15-module Spring Modulith architecture with an event-driven Kafka pipeline for SQL generation, validation, execution, and analysis, streaming job progress through GraphQL subscriptions.
- Implemented RAG-based schema understanding using pgvector, business glossaries, and question-to-SQL examples; strengthened reliability with Resilience4j and secured database connections using SSRF protection and credential encryption.

Live Project

Taf Organic | *Live E-Commerce Platform*

- Led end-to-end development and live deployment of `taforganic.shop`, a production-ready e-commerce platform for premium oils and spices.
- Implemented complex backend business logic and integrated a secure payment gateway while optimizing performance for maximum uptime.

Activities & Achievements

- Completed 80 hands-on Google Cloud labs through the Google Study Jams Campaign, organized by Google Developer Groups (October 2025).
- Solved 500+ Data Structures and Algorithms problems across LeetCode and coding platforms.
- Second Runner Up, The Code Parliament Technical Event.
- Ranked among Top 20 teams in Tech Abhivyakti 2.0 technical competition.