



## Gousik Rao

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### ABOUT ME

Software engineer with comprehensive expertise in Java backend development, data structures, algorithms, and object-oriented programming. Proficient in designing and implementing scalable RESTful APIs using the Spring Boot framework. Committed to delivering maintainable, high-quality code solutions whilst contributing to innovative technology projects within dynamic, research-oriented academic environments. Seeking to advance technical knowledge and contribute to impactful research initiatives through advanced studies in Germany.

### WORK EXPERIENCE

#### UNIQ SOLUTIONS – CHENNAI, INDIA

##### **JAVA FULL STACK INTERN** – 12/2024 – 06/2025

1. Developed and delivered a complete e-commerce backend system as part of a 6-month intensive internship program, working under industry mentorship.
2. Implemented an AI-driven product recommendation engine using Gemini AI API, enhancing user experience and engagement.
3. Collaborated with a cross-functional team to define requirements, conduct code reviews, and follow Agile development practices.
4. Practised with data structures and algorithms problems to improve problem-solving ability.

#### SHIASH INFO SOLUTIONS – CHENNAI, INDIA

##### **JAVA FULL STACK INTERN** – 09/2024 – 11/2024

1. Built a secure messaging web app using web development tools for the front end and Java Servlets for the backend. Later upgraded to Spring Boot independently.
2. Led the complete migration from Servlets to Spring Boot, improving system maintainability and reducing development time by ~30%.
3. Interacted closely with senior developers to refine requirements and ensure alignment with industry best practices.
4. Currently diagnosing and resolving bugs and iterating on the application to enhance stability, performance, and feature completeness.

### EDUCATION AND TRAINING

21/09/2020 – 24/04/2024 Nagercoil, India

#### **BACHELOR OF ENGINEERING** St Xavier's Catholic College of Engineering

##### Relevant Coursework

1. Programming & Algorithms: Data Structures and Algorithms, Object-Oriented Programming (Java).
2. Systems & Networking: Operating Systems, Computer Networks.
3. Data & Cloud: Database Management Systems (SQL), Cloud Computing fundamentals.
4. Software Development: RESTful API development with Spring Boot, web technologies (HTML, CSS, JavaScript), and software engineering principles.
5. Emerging Technologies: Artificial Intelligence and Machine Learning (foundations).

##### Thesis

- Analysis and Application of Blockchain Technology for Pharmaceutical Supply Chain Integrity - Researched a framework for supply chain integrity using smart contracts and decentralized ledgers to ensure product authenticity.

## Certifications & Professional Development

1. [MongoDB Essentials - A Complete MongoDB Guide: Course Completion, Infosys Springboard](#)
2. [Java Training Certificate - Certificate for Completion of Java Training, Spoken Tutorial, IIT Bombay](#)

Website <https://www.sxcce.edu.in/web2/> | Level in EQF EQF level 6

## SKILLS

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### Languages and Frameworks

Java | Spring Boot | REST API | HTML5 | CSS

### CS Fundamentals

database management systems | Data Structures | algorithms | Object Oriented Programming | Operating System | Computer Networks

### Databases

database | SQL | MySQL | Spring Data JPA | CRUD Operations | PostgreSQL

### Tools and Platforms

GitHub | Git | Linux | Postman | JUnit | Unit Testing

## PROJECTS

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### E-Commerce Backend API

1. Engineered modular backend modules for product catalog, cart, and order workflows using Spring Boot and layered architecture principles.
2. Integrated machine learning capabilities through the Gemini AI API for intelligent product recommendations.
3. Built a CI pipeline using GitHub Actions, automating build and test processes to boost project velocity and reduce manual errors.
4. Achieved high test coverage through comprehensive unit testing with JUnit and API validation using Postman.

Link <https://github.com/gousik-Rao/Secure-Messaging>

### Messaging Web App

1. Built a backend messaging platform using Java Servlets, later refactored and migrated to Spring Boot, reducing boilerplate by ~30%.
2. Implemented JWT authentication and role-based access control using Spring Security for reliable authentication.
3. Designed REST APIs for message handling backed by Spring Data JPA and MySQL for data persistence.
4. Implemented a CI pipeline with GitHub Actions for automated build and testing, enabling faster feedback and production readiness.

Link <https://github.com/gousik-Rao/Secure-Messaging>

## LANGUAGE SKILLS

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Mother tongue(s): **TAMIL**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	B2	C1	B2
<b>GERMAN</b>	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user