

# GOKULAKRISHNAN K

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## PROFESSIONAL SUMMARY

Final-year Computer Science Engineering graduate (B.Tech, 2026) seeking a Backend Developer role. Skilled in Java, Spring Boot, and REST API development, with working knowledge of React JS, HTML, CSS, and JavaScript for full-stack integration. Built and deployed multiple database-driven applications; experienced with Git-based version control, API testing in Postman, and UI prototyping in Figma. Strong fundamentals in OOP, DBMS, and Data Structures, with a track record of leading teams as Class Representative for two consecutive years.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, SQL

**Backend:** Spring Boot, REST APIs, JDBC, Hibernate

**Frontend:** HTML, CSS, JavaScript, React JS

**Database:** MySQL

**Design:** Figma (UI/UX prototyping)

**Tools & Platforms:** Git, GitHub, IntelliJ IDEA, VS Code, Postman

**Core Concepts:** Object-Oriented Programming, Data Structures & Algorithms, DBMS, Operating Systems

## EXPERIENCE

### Application Developer Intern — Ormatrix

Cuddalore, India | Sep 2025

- Built a login application with session-based authentication using Java, Spring Boot, and React during a two-week internship.
- Gained foundational experience in Java backend development and client-server interaction.

### Web Developer Intern — Ormatrix

Cuddalore, India | Sep 2023

- Built a static login web page with form validation using HTML, CSS, and PHP during a one-week internship.
- Gained foundational experience in front-end development and client-server interaction.

## PROJECTS

### E-Use — IoT-Enabled Electronic Waste Management System | Java, Spring Boot, React JS, MySQL, JWT, RFID/QR

- Designed and developed a full-stack e-waste tracking platform with React JS frontend and Spring Boot REST APIs.
- Implemented JWT-based authentication and RFID/QR code integration for real-time waste bin tracking.
- Applied Dijkstra's algorithm for optimized collection route planning, reducing simulated pickup distance.
- Final-year team project (4 members); responsible for backend architecture and API design.

### JiJu AI — Multi-Purpose AI Assistant Platform | Spring Boot, React Native, Ollama

- Built an AI assistant platform with dedicated modules for travel planning, recipe generation, and personal guidance.
- Integrated a local Ollama AI model with a Spring Boot backend to serve multiple concurrent use cases.

### AI Refrigerator — Smart Recipe Recommendation System | Python, Roboflow, Spring Boot

- Developed a computer-vision pipeline using Roboflow to detect ingredients inside a refrigerator.
- Generated recipe suggestions based on detected items via a Spring Boot backend service.

## EDUCATION

### B.Tech, Computer Science and Engineering — Achariya College of Engineering Technology (Pondicherry University)

Cuddalore, India | Aug 2022 – May 2026

- CGPA: 7.4 | Class Representative for 2<sup>nd</sup>, 3<sup>rd</sup> year

**HSC** (Computer Science): 63% | **SSLC**: 88% — Krishnaswamy Memorial Matriculation Higher Secondary School