

# SUMAN PANDIT

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## Summary

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**Java Backend Developer / Backend Engineer** specializing in **Java & Spring Boot**, building **scalable REST APIs** and backend systems used in **real-world workflows**. Experienced in **API integrations, database design, and clean architecture**, with hands-on ownership of **end-to-end backend services**. Strong in **problem-solving, system thinking**, and delivering **production-ready features**.

## Projects

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### Email Assistant

**Java, Spring Boot, REST APIs, React, Chrome Extension**

Source: [github.com/sumanpanditofficial/Email-Assistant](https://github.com/sumanpanditofficial/Email-Assistant)

- Architected and implemented a **Spring Boot backend** powering an AI-driven email assistant, handling **request orchestration, third-party API integration**, and response processing.
- Integrated the **Google Gemini API** with **secure request handling and prompt optimization**, enabling **context-aware email generation** directly inside inbox workflows.
- Designed and exposed **REST APIs** consumed by both a **React frontend** and a **Chrome Extension**, enabling **in-inbox drafting** and reducing email composition time by **40%**.
- Implemented a **modular service-layer architecture** to support future extensibility, including **multi-provider AI support, user personalization**, and analytics.

### Student Management System

**Java, Core Java, Multithreading, File I/O**

Source: [github.com/sumanpanditofficial/Student-Management-System](https://github.com/sumanpanditofficial/Student-Management-System)

- Built a **multi-threaded, console-based Student Management System** in **Core Java**, using a **layered architecture** (model, service, util, exception) for clean modular design.
- Implemented **file persistence with multi-threaded auto-save**, backing up data every **6 seconds** to ensure reliability, fault tolerance, and minimal data loss.
- Applied strong **OOP principles, custom exceptions, and concurrency control** to simulate **production-style backend design**.

## Skills

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**Backend Development:** Java (Core, OOP, Concurrency), Spring Boot, REST APIs, JDBC, JPA/Hibernate, Microservices, Maven

**Databases:** MySQL, PostgreSQL (schema design, joins, indexing)

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

**CS Foundations:** Data Structures and Algorithms, System Design fundamentals

**Methodologies:** Agile, Scrum

## Leadership

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**Team Lead (Hackathons)** Led cross-functional teams in university hackathons to design and deliver functional software solutions under tight deadlines.

**Director, STEM Club** Organized and scaled technical events as Director of the STEM Club, coordinating teams and logistics for competitive programming and innovation events.

## Certifications

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**Spring Boot 3, Spring 6 & Hibernate** — REST APIs, Backend development, and Database integration.

**Oracle OCI AI Foundations** — Basics of AI and ML on Oracle Cloud.

## Education

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**B.Tech, Computer Science and Engineering** — KIIT University, Bhubaneswar, India

**2025**