

AYUSH PANDEY

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Professional Summary

Software Developer with hands-on experience building secure backend systems, AI-driven applications, and scalable software solutions. Developed SwiftUPI, a mesh-routed offline payment backend with hybrid RSA+AES encryption and exactly-once settlement under concurrent load, demonstrating expertise in secure digital infrastructure and distributed systems. Built Mira AI, a desktop voice and chat assistant with live speech recognition and hot-switchable bilingual support using modular architecture. Experienced in Spring Boot backends, REST APIs, concurrent processing, and modern frontend development, with strong interest in Digital Public Infrastructure, emerging technologies, and e-Governance systems.

Technical Skills

Languages: Java, Python, JavaScript, HTML5, CSS3

Software Development: Spring Boot, REST APIs, JPA/Hibernate, Distributed Systems, Concurrent Processing

Security & Emerging Technologies: AES-256-GCM, RSA-OAEP, OpenAI API, Speech Recognition

Frontend, Tools & Databases: ReactJS, Bootstrap, PyQt5, Git, GitHub, Maven, MySQL, JUnit 5

Projects

SwiftUPI – Offline Digital Payment Infrastructure | *Java 17, Spring Boot, AES-256-GCM, RSA-OAEP, JUnit 5* | [Link](#) **2026**

- Developed a secure offline payment backend using Bluetooth mesh routing with AES-256-GCM and RSA-OAEP encryption, enabling resilient digital transaction flow without internet connectivity
- Resolved concurrent duplicate-settlement issues using atomic hash claiming and built multithreaded JUnit 5 tests to validate reliable exactly-once transaction settlement in distributed environments

Mira AI – Voice & Chat Assistant | *Python, PyQt5, SpeechRecognition, OpenAI API* | [Link](#) **2026**

- Developed a desktop AI assistant supporting real-time voice and text interaction with bilingual English/Hindi processing and live speech recognition
- Designed a modular architecture across speech, UI, and API components to improve maintainability, scalability, and iterative feature enhancement

GoGym – Responsive Web Platform | *HTML, CSS, JavaScript, Bootstrap* | [Link](#) **2025**

- Built a responsive multi-page web platform using Bootstrap and JavaScript with optimized layouts, interactive navigation, and cross-device accessibility

Positions of Responsibility

Sponsorship Coordinator

Aug 2024 – Sep 2025

Galgotias Sponsorship Club, Galgotias College

Greater Noida

- Secured **5+ brand partnerships** per cycle through strategic outreach and stakeholder communication, increasing sponsorship contributions by **INR 20–30K**
- Documented outreach workflows into reusable operational playbooks to improve coordination and execution efficiency

Literary Club Coordinator

Sep 2024 – Aug 2025

Galgotias Literary Club, Galgotias College

Greater Noida

- Managed a **30-member team** across **10+ events** through structured task allocation and execution planning
- Improved event attendance by **25%** by implementing streamlined coordination processes and pre-event tracking systems

PR & Outreach Member

Aug 2023 – Nov 2024

GeeksforGeeks Student Chapter, Galgotias College

Greater Noida

- Led outreach initiatives for **5+ technical events**, reaching **1,000+ students** and increasing registrations by **30%**

Education

B.Tech – CSE (Artificial Intelligence)

2023 – 2027 (Expected)

Galgotias College of Engineering and Technology

Greater Noida, U.P., India

Certifications

- [AWS Gen AI Foundations](#) - AWS Academy (2026)
- AI & Cybersecurity Awareness - TCS iON (2026)
- [Gemini Certified Student](#) - Google for Education (2026)
- [IBM SkillsBuild](#) - IBM (2025)