

Pranshu Chaurasia

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SUMMARY

Software Engineer with hands-on production experience at a funded travel-tech startup, building workflow automation systems using Java 17, Spring Boot, and Temporal.io. Strong foundation in microservice architecture, CI/CD, and system design. Pursuing M.Tech (AI) from IIT Lucknow.

EDUCATION

Indian Institute of Information Technology, Lucknow

M.Tech in Computer Science(Artificial Intelligence)

Aug 2024 – Present

CGPA: 7.63/10 (ongoing)

Gurukul Kangri (Deemed to be) University, Haridwar

B.Tech in Computer Science and Engineering

CGPA: 8.16/10

EXPERIENCE

Software Engineer – Intern

TripFactory.com, Bengaluru, India

Jan 2026 – Present

On-site

- Built a workflow orchestration microservice from scratch using Java 17, Spring Boot, Temporal.io, and PostgreSQL, automating supplier delivery confirmation follow-ups and escalations and reducing manual operations effort by approximately 60-70%.
- Integrated OpenAI API for structured email parsing and architected a relay service layer with REST APIs, callbacks, and signal-based workflow resumption, reducing supplier response handling time from hours to around 10-15 minutes per case.
- Designed a data-driven state machine with workflow graphs stored in PostgreSQL (JSONB), and contributed to Helm charts and CI/CD pipelines using GitHub Actions, Docker, AWS ECR, and Kubernetes (EKS), cutting deployment turnaround by approximately 30-40 minutes per release.

Teaching Assistant

Indian Institute of Information Technology, Lucknow

Sept 2024 – Jan 2026

On-site

- Conducted weekly tutorial sessions for 240+ students, improving their understanding of Artificial Intelligence and Reinforcement Learning concepts.
- Provided one-on-one mentorship, resolving doubts and guiding students in coding best practices.

SKILLS

Languages: Java, Python, C/C++, JavaScript, SQL

Backend: Spring Boot, REST APIs, Hibernate/JPA, JUnit, Temporal.io, Maven, Node.js

AI/ML: OpenAI API, TensorFlow, PyTorch, Scikit-learn, OpenCV

DevOps & Tools: Docker, Kubernetes (EKS), Helm, GitHub Actions, AWS ECR, PostgreSQL, Git, Linux

Frontend: ReactJS, HTML, CSS

Coursework: Data Structures & Algorithms, DBMS, OOPs, Operating Systems, Machine Learning

Soft skills: Problem Solving, Communication, Team Collaboration, Analytical Thinking

PROJECTS

Task Execution System | Java, Spring Boot, REST APIs, Concurrency

Jan 2026

- Built a high-performance Spring Boot backend supporting up to 50 concurrent long-running tasks with controlled thread pool management.
- Implemented FIFO task scheduling, safe task cancellation, and 6 REST endpoints for task submission, status tracking, and lifecycle management.

Student Management API | Java, Spring Boot, JPA, PostgreSQL

Nov 2025

- Developed a production-ready RESTful API with 10+ endpoints for student management using Spring Boot, JPA, and PostgreSQL.
- Implemented full CRUD operations, DTO mapping with ModelMapper, and a clean 3-layer architecture (Controller, Service, Repository) for maintainable backend development.

AI-Powered Sudoku Solver | Python, TensorFlow, OpenCV, Pygame

May 2025

- Built CNN-based Sudoku solver achieving 95%+ digit recognition accuracy from images, with backtracking for solution.
- Integrated an interactive Pygame interface with 3 difficulty levels and real-time solving hints for improved user experience.

CERTIFICATIONS & ACHIEVEMENTS

Microsoft Certified: Azure Fundamentals – Credential Link

Introduction to Software Product Management – Credential Link

Cleared GATE exam 3 times (CS), demonstrating strong fundamentals in DSA, OS, DBMS, & Computer Networks.

Open Source Contributor under GSSoC 2024 (GirlScript Summer of Code) – contributed PRs and resolved issues across multiple repositories.

Won two Bronze & one Silver medal in International Mathematics Olympiad (Zone Topper).