

Kaniska Ranjan Barman

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Education

Guru Ghasidas Vishwavidyalaya, Bilaspur B.Tech in Computer Science and Engineering	2022 – 2026
Jawahar Navodaya Vidyalaya, Alipurduar Higher Secondary (Class XII), CBSE, Science Stream	2015 – 2022

Experience

Java Trainer – Coding Cloud Institute, Pune (On-site)	Dec 2025 – Feb 2026
- Delivered instruction in Java, Advanced Java, Servlets, JSP, Hibernate, Spring Boot, and Git to a cohort of 25+ working professionals across 40+ live sessions. - Mentored 15+ industry professionals on job-oriented capstone projects, with 90% of mentees successfully completing their deliverables on schedule. - Designed and maintained the training syllabus and session tracking system, cutting session-prep turnaround time by approximately 30%.	
Full-Stack Developer Intern – Java Pro Academy, New York (Remote)	May 2025 – Aug 2025
- Led front-end development using Vaadin Flow and Spring Boot, later migrating the stack to ReactJS, improving page load responsiveness by an estimated 25%. - Built and shipped 30+ features for a Learning Management System (LMS) using Test-Driven Development (TDD), raising automated test coverage from a legacy baseline to 95%+. - Optimized the team's CI/CD pipeline with Jenkins and Docker, reducing average deployment time by approximately 40%.	

Projects

AI-Powered HRMS App Live Link	Feb 2026 – Present
- Built a full-stack HRMS on a Java/Spring Boot backend, integrating a self-hosted Ollama LLM with tool-calling into a CRM interface so HR teams could create job forms, manage applicants, and onboard candidates, automating email dispatch and status updates end-to-end. - Engineered a Retrieval-Augmented Generation (RAG) pipeline for semantic candidate search using pgVector and Voyage AI embeddings, cutting candidate shortlisting time by an estimated 50% compared to manual keyword search. - Implemented Google OAuth2 + JWT authentication with role-based access control, AWS S3 storage, and Brevo for transactional email delivery, supporting 100+ concurrent user sessions. - Deployed on AWS EC2 with Cloudflare routing and Vercel for the frontend, automating releases via cron jobs and shell scripts to reduce manual deployment steps by roughly 60%. Tools: Next.js, Spring Boot, Lombok, Maven, ModelMapper, Swagger API, JWT, Tailwind CSS, Spring AI, AWS IAM, AWS EC2, Cloudflare.	
Chat App GitHub Repository	Feb 2025 – Mar 2025
- Developed a real-time chat application supporting instant room creation and joining, tested with 20+ concurrent users without message loss. - Implemented timestamped message history so new participants could follow prior conversation context in full. Tools: Java, Spring Boot, WebSocket, Maven, HTML, Tailwind CSS, JavaScript, ReactJS, Docker, Git, GitHub, Linux.	

Technical Skills

Programming Languages: Java, JavaScript, Python (working knowledge)
Generative AI / LLM Engineering (Java-first): Spring AI, LangChain4j, Retrieval-Augmented Generation (RAG), LLM Tool-Calling / Function Calling, Ollama (self-hosted LLM inference), Prompt Engineering, Vector Databases (pgVector), Embedding Models (Voyage AI), Semantic Search, Scalable AI Service Design on the JVM
Development: HTML, CSS, ReactJS, Next.js, Tailwind CSS, Headless UI, Spring Boot, Vaadin Flow, Spring Security
Developer Tools: Git & GitHub, Postman, Docker, Debian, Fedora
CS Fundamentals: Core Java, Multithreading, OOP, Exception Handling, Data Structures, Algorithms
Cloud / Databases: AWS (EC2, S3, IAM), Platform.sh, Render, MySQL, MongoDB
Soft Skills: Team Collaboration, Problem Solving, Effective Communication
Areas of Interest: Applied GenAI on the JVM, Open Source, DevOps & Cloud Infrastructure, CI/CD Automation

Co-Curricular Activities

Partnership and Coordination Lead – Google Developer Groups on Campus	Sept 2024 – Aug 2025
Game Development Lead – GeeksforGeeks Student Chapter, GGV	Oct 2024 – May 2025
Tech Lead – Smart India Hackathon, GGV Bilaspur	Dec 2024