

CHAITANYA AMBEKAR

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PROFESSIONAL SUMMARY

Software Engineer with 1+ years of production experience building scalable microservices and RESTful APIs using Java and Spring Boot. Hands-on expertise in AWS cloud deployment (EC2, S3, ALB, Auto Scaling), Kafka-based event-driven architecture, and CI/CD pipelines. Proven ability to reduce manual effort by 60% through AI-driven automation. Published researcher with a Scopus-indexed NLP paper. Passionate about building high-performance, cloud-native, production-ready backend systems.

TECHNICAL SKILLS

Languages: Java, Python, SQL

Frameworks & Libraries: Spring Boot, Spring MVC, Hibernate, JSP, REST APIs, Microservices Architecture, Next.js

Cloud & DevOps: AWS (EC2, S3, ALB, Auto Scaling), CI/CD Pipelines, Nginx, Docker

Databases: MySQL, Database Schema Design, Query Optimization

Tools & Technologies: Apache Kafka, Event-Driven Architecture, Git, GitHub, Git Bash, Cloudflare R2

Security & Integration: Amazon S3 pre-signed URLs, JWT/OAuth2, Third-Party Payment Gateway Integration

AI/ML: NLP, mBERT, BERT, Multilingual Text Classification, Sentiment Analysis

Methodologies: Agile/Scrum, Peer Code Reviews, System Design, Problem-Solving

WORK EXPERIENCE

Associate Software Engineer | Thinkhumble Creative Solutions

Oct 2024 – Present

- ▶ **RESTful API Development:** Designed and maintained high-performance RESTful APIs using Spring Boot and MySQL, reducing API response time by ~35% and database load by ~25% through query optimization and connection pooling.
- ▶ **Cloud Infrastructure (AWS):** Deployed and managed production applications on AWS EC2 with Application Load Balancer (ALB) and Auto Scaling groups, achieving 99.9% uptime for concurrent users.
- ▶ **Secure Media Delivery:** Implemented secure, time-limited video delivery using Amazon S3 Pre-Signed URLs, enabling controlled media access without exposing storage credentials.
- ▶ **Payment Integration:** Built secure payment gateway integration with third-party providers, processing online transactions reliably with zero critical failures.
- ▶ **AI Automation:** Integrated an AI-based coding problem automation system, reducing manual setup effort by 60% and significantly accelerating content onboarding speed.
- ▶ **Event-Driven Architecture (Kafka):** Migrated submission processing from synchronous to event-driven architecture using Apache Kafka, improving system scalability and reducing processing latency by ~50%.
- ▶ **Agile Development:** Participated in Agile sprints using CI/CD pipelines, Git-based version control, and peer code reviews to ensure high code quality and faster delivery cycles.

PROJECTS

DevMetrix — Developer Tools & Learning Platform — *Next.js, Spring Boot, MySQL*

- ▶ Designed and built a full-stack developer resource platform from scratch using Next.js (frontend) and Spring Boot (backend), featuring free tools, code examples, tech comparisons, and an AI-powered DevBot assistant.
- ▶ Architected RESTful APIs with Spring Boot to serve dynamic content including tech showdowns, blog posts, and project resources, enabling seamless client-server communication.
- ▶ Implemented server-side rendering (SSR) with Next.js for fast page loads and improved SEO, ensuring a responsive and high-performance user experience across devices.
- ▶ Integrated an AI chatbot (DevBot) to assist developers with technical queries in real time, enhancing platform interactivity and engagement.

MBlogger — Media Sharing Platform — *Java, Spring Boot, MySQL, Cloudflare R2*

- ▶ Built a full-featured social media platform using Spring Boot enabling users to upload and manage posts, images, videos, and documents with robust access control.
- ▶ Developed RESTful APIs for secure media uploads, downloads, and content streaming across endpoints, ensuring efficient and reliable data transfer.
- ▶ Integrated Cloudflare R2 for cloud-based media storage, optimizing access latency and reliability for large file handling at scale.
- ▶ Designed optimized MySQL database schema for user profiles, media metadata, and activity management, reducing query execution time significantly.

Textile E-Commerce Platform — Java, Spring Boot, AWS, MySQL

- ▶ Built and deployed a fully functional textile e-commerce platform on AWS EC2 with a custom domain, supporting end-to-end purchase flows.
- ▶ Achieved 99.9% uptime with high availability architecture using load balancing and auto-scaling to handle concurrent users without performance degradation.

Automated Media Monitoring System — Government of India (PIB) — Python, NLP, mBERT, BERT

- ▶ Engineered a multilingual news analysis system for the Press Information Bureau (PIB), processing and classifying 50,000+ news articles daily across multiple Indian languages.
- ▶ Implemented mBERT for multilingual news classification and BERT derivatives for sentiment analysis, delivering real-time public opinion insights with 95% accuracy.
- ▶ Published findings in a Scopus-indexed peer-reviewed journal on NLP-based text classification models for government news monitoring.

EDUCATION

International Institute of Information Technology — Pune, India
Bachelor of Engineering — Computer Engineering | CGPA: 8.7

Nov 2021 – Jul 2024

Government Polytechnic — Khamgaon, India
Diploma — Computer Engineering | Score: 94.11%

Jul 2018 – Aug 2021

CERTIFICATIONS & ACHIEVEMENTS

- ▶ **NPTEL Elite Badge — Java Programming**: Completed NPTEL certification in Java covering Core Java, OOP, Data Structures, and Algorithms. Awarded Elite Badge for top performance.
- ▶ **Scopus-Indexed Research Publication**: Published a peer-reviewed research paper in a Scopus-indexed journal on government news classification using NLP-based multilingual text classification models.