

AHSAN ZAMIL

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EDUCATION

Amity University

Bachelor in Computer Application (CGPA: 8.36 / 10.0)

July 2023 - July 2026

Noida, India

PROJECTS

Job Portal Microservices | Java, Spring Boot, PostgreSQL, Docker, Kubernetes, Eureka, Resilience4j, Zipkin, | [GitHub](#), [Doc](#) 2025

- Architected a scalable microservices-based job application system using Java, Spring Boot, PostgreSQL, K8s and Docker
- Implemented inter-service communication with OpenFeign, optimizing API calls and enhancing system responsiveness
- Designed & integrated a centralized service registry using Eureka, enabling seamless service discovery & load balancing
- Enhanced system reliability by implementing fault tolerance, circuit breakers, retries, and rate limiting with Resilience4j
- Containerized and orchestrated microservices using Docker and Kubernetes, achieving scalable deployment & availability
- Centralized configs with Spring Cloud Config Server, enabling hot-reload across microservices without service restarts
- Implemented message-driven architecture with RabbitMQ, improving system responsiveness and service decoupling
- Deployed config server for centralized externalized management, enabling dynamic updates without service restarts
- Built API Gateway with Spring Cloud Gateway for unified routing, load balancing, and cross-cutting concerns
- Integrated Zipkin for comprehensive distributed tracing with end-to-end request visibility and effective troubleshooting

Smart Research Assistant | Spring Boot, Google Gemini API, Chrome Extension, RESTful APIs, WebClient | [GitHub](#), [Doc](#) 2025

- Built a full-stack research tool with Spring Boot backend and Chrome Extension frontend leveraging Google Gemini AI
- Engineered RESTful APIs with WebClient for asynchronous communication between Spring backend and Gemini AI
- Developed a Chrome Extension with custom side panel UI to capture selected text and display AI-processed research
- Implemented responsive frontend with Font Awesome and custom CSS for intuitive text processing and note-taking
- Created persistent storage mechanism using Chrome Storage API for seamless cross-session research notes management
- Designed modular architecture with Lombok annotations to streamline data processing and improve code maintainability

Fitness AI Microservices | Spring Boot, Spring Cloud, MongoDB, Docker, RabbitMQ, Google Gemini AI API, | [GitHub](#), [Doc](#) 2025

- Architected a scalable microservices-based fitness app using Spring Boot, Spring Cloud, and Eureka service discovery
- Integrated Google's Gemini AI API to deliver highly personalized workout recommendations and fitness insights
- Designed asynchronous communication patterns between microservices using RabbitMQ for real-time activity processing
- Implemented secure API gateway using Spring Cloud Gateway for authentication and request routing across services
- Developed centralized configuration management with Spring Cloud Config Server for dynamic service updates
- Built resilient data persistence layer with MongoDB for flexible schema evolution and high availability
- Implemented comprehensive logging and monitoring using Spring Actuator for real-time system health tracking
- Designed fault-tolerant service communication with circuit breakers and fallback mechanisms using Resilience4j

ACHIEVEMENTS

- Achieved Knight level (top 5%) on [LeetCode](#) with a highest competitive programming rating of **1886** in problem solving
- Demonstrated coding proficiency by solving **600+** [LeetCode](#) and **200** [InterviewBit](#) questions, alongside a **250-day** streak
- Achieved a **5-star** rating in problem solving (DSA) in Java on [HackerRank](#)
- Winner of [HackFusion 1.0](#) for developing an innovative solution to empower school students and beginners in coding
- Achieved the [SDE](#) and [Advance SQL](#) certifications from [HackerRank](#), validating expertise in software development

TECHNICAL SKILLS

Languages: Java, C++, HTML, CSS, SQL,

Databases: MySQL, MongoDB, PostgreSQL, Redis

Frameworks: Spring Boot, Spring Cloud, Spring Security, Hibernate, Spring Data JPA, Spring Web MVC

Libraries: Lombok, Resilience4j, Micrometer, Open Feign, Gateway, Keycloak, Jackson, SLF4J

Platforms: Kafka, Docker, Kubernetes, Postman, GitHub, Grafana, RabbitMQ, GitHub Actions, Vercel,

Tools: Eureka, Zipkin, Git, Maven, Gradle, Figma, Jira, IntelliJ,

Architecture: Microservices, Distributed Systems, MVC, Client-Server,

Others: DSA, Object-Oriented Programming & Design, Database Management System, Operating System, Computer Network