

# AHSAN ZAMIL

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## EXPERIENCE

### Software Development Engineer Intern

Nov 2025 - Jan 2026

Wings of Wisdom Foundation

[Live](#) | [Certificate](#)

- Architected scalable full-stack NGO website with React, TypeScript, Node.js, reducing load time by **74%** from 4.2s to 1.1s
- Integrated Razorpay payment gateway with RESTful APIs, achieving **100%** success in processing and receipt generation
- Deployed to Digital Ocean App Platform with CI/CD automation, achieving **99.9%** uptime and zero-downtime updates
- Optimized frontend performance by reducing initial JavaScript bundle size by **42%** through advanced code-splitting
- Boosted Lighthouse performance score from **68** to **94** by implementing lazy loading for assets and optimized rendering
- Built a secure Express.js backend with environment-based configurations, handling API requests with sub-**50ms** latency
- Implemented a dynamic donation form with Regex-based PAN validation, reducing user data entry errors by nearly **90%**
- Configured custom domain with DNS management, SSL certificates, and optimized SEO using Open Graph meta tags
- Established comprehensive documentation including deployment guides, API docs, and environment setup instructions
- Enhanced accessibility and SEO by utilizing semantic HTML5 and structured data, achieving a perfect Accessibility score

## 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
- 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
- Created persistent storage mechanism using Chrome Storage API for seamless cross-session research notes management

### 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
- Built resilient data persistence layer with MongoDB for flexible schema evolution and high availability

## ACHIEVEMENTS

- Achieved Knight level (top **5%**) on [LeetCode](#) with a highest competitive programming rating of **1886** in problem solving
- Solved **800+** [LeetCode](#) problems, sustaining a 360-day coding streak to demonstrate strong algorithmic problem-solving
- Achieved **5-star** rating in problem solving (DSA) in Java on [HackerRank](#) reflecting advanced DSA and Java proficiency
- Winner of [HackFusion 1.0](#) for developing innovative AI-powered solution to empower students in coding skills
- Achieved [SDE](#) and [Advance SQL](#) certifications from [HackerRank](#) validating strong technical problem-solving skills

## TECHNICAL SKILLS

**Languages:** Java, C++, HTML, CSS, SQL, JavaScript, TypeScript

**Databases:** MySQL, MongoDB, PostgreSQL, Redis

**Frameworks:** Spring Boot, Spring Cloud, Spring Security, Hibernate, Spring Data JPA, React, Express.js

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

**Platforms:** Kafka, Docker, Kubernetes, Postman, GitHub, Grafana, RabbitMQ, Digital Ocean, Vercel

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

**Architecture:** Microservices, Distributed Systems, MVC, Client-Server, RESTful APIs

**Others:** DSA, Object-Oriented Programming, DBMS, Operating Systems, CI/CD, Computer Networks

## EDUCATION

### Amity University

Bachelor in Computer Application (CGPA: 8.36 / 10.0)

July 2023 - July 2026

Noida, India