AYESHA DASH

BACKEND ENGINEER - JAVA | SPRING | MICROSERVICES | AWS

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SUMMARY

Backend Engineer with over 4.11 years of experience in **Java**, **Spring Boot** & **Microservices**. Built reliable, high-performance systems using **Kafka, AWS, SQL & NoSQL databases**. Automated CI/CD pipelines with **Jenkins** and **Docker**. Expertise in implementing event-driven workflows using **Kafka** and **RabbitMQ**. Holds an M.Sc. in Advanced Computer Science from the University of York, with expertise in **cybersecurity** and **system resilience**. Currently upskilling on Agentic AI, RAG, LLM. Seeking backend engineering roles focused on designing robust, efficient systems.

CAREER HIGHLIGHTS

- Experienced in developing scalable backend systems using **Java** and **Spring Boot**.
- Proficient in relational and NoSQL databases including **PostgreSQL**, **MySQL**, and **MongoDB**.
- Hands-on expertise in microservices architecture, **RESTful API**, **GraphQL**, and backend optimisation.
- Skilled in event-driven systems using **Kafka**, and **Redis**.
- Experienced in implementing secure REST APIs, authentication mechanisms **(OAuth2, JWT)**.
- Strong knowledge of **AWS** cloud services including ECS, **Lambda**, and **S3**.
- Practical experience with CI/CD pipelines using Jenkins, **Docker**, and **GitLab**.
- Experienced in **JIRA** for **agile** project management, tracking development tasks, and sprint cycles.

EXPERIENCE

Module Lead Java | Happiest Minds Technologies | India,   **08/2025 – Present**

Joined as Module Lead, overseeing Java-based development initiatives within the Product and Digital Engineering Services unit.

- Actively upskilling on cloud-native architectures, microservices design, and containerisation technologies (Docker, Kubernetes) to enhance delivery efficiency and system resilience.

Backend Developer (Freelance) | Let Sell Properties | UK,   **07/2024 – 07/2025**

Developed a property listing platform to streamline searches, bookings, and agent-user communication. Built REST APIs using Java and Spring Boot, integrated with MySQL, Redis, and third-party services like Google Maps and Calendar APIs. Introduced generative AI to enhance user experience.

- Created **REST APIs** to handle 100+ daily booking requests and user-agent messaging, securing endpoints with JWT authentication.
- Optimised **MySQ**L queries for property searches, reducing response times by 20% for 200+ listings; implemented **Redis** caching to support 1000 daily API calls.
- Configured **Kafka** to process 200+ daily events, including appointment confirmations and listing alerts, ensuring real-time updates.
- Integrated **Google Maps API** for location-based searches across 5 UK regions and Google Calendar API to sync agent schedules, reducing booking conflicts by 25%.
- Trained a **generative AI model** to suggest personalised property recommendations based on user search patterns, improving user engagement by 15% for 500+ monthly users.
- Documented 30+ API endpoints using **Swagger**, validated functionality with Postman, and collaborated with 8 developers in agile sprints via **Git** and **JIRA**.

Gap period - 2022-2024 (Higher Education)

Software Engineer II | Accenture, India,   03/2021 – 09/2022

Enhanced an insurance management system for a major Australian insurer, focusing on fraud detection, dispute handling, and system stability. Deployed services on AWS ECS and **Kubernet**es using Java and Spring Boot.

- Built distributed services to process 500+ daily claims, achieving 99% uptime through **AWS ECS** deployments.
- Improved fraud detection by integrating **Kafka** pipelines to handle 600+ scoring events daily, automating claim triage workflows with Redis.
- Secured authentication with **OAuth2** and **JWT**, reducing login errors by 15% for 100+ internal users.
- Developed dashboards using **Prometheus** and **Grafana** to monitor system health, cutting incident recovery time by 30%.
- Implemented **GraphQL** specifically for optimised data fetching from third-party verification systems.
- Conducted root-cause analysis using **ELK Stack**, resolving 50+ critical issues through hotfix deployments.

Senior Software Engineer | Capgemini, India,   11/2018 – 03/2021

Developed a policy administration system for an insurer, supporting quote-to-policy issuance for farm, commercial, and personal insurance. Built low-latency APIs and integrated third-party services using Java and Spring Boot.
- Created REST APIs for quote and payment processing, handling 1,000+ daily requests with response times reduced from 1.5s to 0.975s.
- Enhanced billing engines with **Java** and **SQL**, integrating with Stripe to automate recurring payments, subscriptions, and financial product instalment plans.
- Tuned SQL queries and added indexes in **PostgreSQL** to process 10,000+ underwriting records, speeding up policy issuance by 20%.
- Integrated e-signature and **document generation API**s, enabling digital policy delivery for 1,200+ monthly policies.
- Built automated notifications for overdue payments, improving collection rates by 10% for 500+ delinquent accounts.
- Monitored **system performance** with Prometheus and Grafana, resolving 30+ integration issues with payment gateways and risk scorers.

EDUCATION

M.Sc. in Advanced Computer Science| 2:1 | University of York, United Kingdom   09/2022 – 02/2024
Relevant Coursework: Cryptography, Cybersecurity, Forensic Analysis, Network Security, User-Centred Design, System Resilience, Human Computer Interaction
B.TECH. In Electronics & Telecommunication| 3.42 GPA | BPUT, India,   08/2014 – 05/2018
Relevant Coursework: C, C++, Data Structures, DBMS, Object-Oriented Programming, Operating Systems, Artificial Intelligence.

TECHNICAL SKILLS

Programming & Frameworks	Java 21, Python, SQL, Spring Boot 3, React, Fast API
Database & Messaging	PostgreSQL, MySQL, MongoDB, Redis, Kafka
Cybersecurity	Malware Analysis & Threat Detection, OWASP, Cryptography, IAM, OAuth2, JWT
Network security	TLS, VPN, IDS/IPS, Packet Analysis (Wireshark, Nmap)
Monitoring & Security	Prometheus, Grafana, ELK Stack, OAuth2, JWT
Tools & Technologies	JIRA, GitLab, Postman, Swagger, Scrum, Kanban

CERTIFICATIONS

Oracle Certified Java SE8 Programmer | AWS DevOps & CI/CD Automation (LinkedIn Learning) | Guidewire Specialist – BillingCenter 10.0 Configuration | Guidewire Specialist – PolicyCenter 10.0 Configuration