

Ahmed Samy Bakry Mahmoud

Software Engineer

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Professional Summary

Results-driven Java Backend Developer with 5+ years of experience designing and maintaining scalable applications using Spring Boot, REST APIs, and AWS Cloud. Skilled in microservices architecture, hands on CI/CD pipelines, and database management, with a proven track record of migrating legacy systems to serverless architectures and improving system performance. Adept at solving complex technical challenges, mentoring peers, and delivering high-quality, maintainable solutions. Passionate about adopting new technologies and fostering accessibility in development.

Key Skills

- **Backend Development:** Java, Spring Boot, REST APIs, Maven.
 - **Cloud & DevOps:** AWS (Lambda, SQS), Terraform (IaC), serverless architectures.
 - **Microservices:** Domain-Driven Design (DDD), asynchronous communication.
 - **Database Management:** SQL, Hibernate ORM, database optimization.
 - **Web Accessibility:** WCAG standards, NVDA, ARC Toolkit.
 - **Frontend Development:** Angular 2+, RxJS (Full-stack mindset).
 - **Agile & Collaboration:** Scrum, sprint planning, cross-functional teamwork.
 - **Testing & Quality:** JUnit, Mockito, Jasmine, Karma.
 - **Leadership:** Mentoring, technical documentation, and knowledge sharing.
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Professional Experience

Senior Software Engineer | Epam Systems | Poland | Feb 2022 - now

- Migrated on-premises services to AWS Cloud, leveraging Terraform (IaC) for automated provisioning, transitioning to serverless (Lambda) and event-driven (SQS) architectures.
- Decomposed monolithic applications into microservices, applying Domain-Driven Design (DDD) principles to enhance maintainability and scalability.
- Integrating AWS SDK for Java and implementing test-driven development (JUnit/Mockito).

- Refactored legacy systems into loosely coupled Spring services using dependency injection and Spring Profiles, simplifying debugging and deployments.
- Redesigned APIs into Spring RESTful services, improving third-party and front-end integration.

Software Engineer | Epam Systems | Belarus - Poland | Sep 2020 - Feb 2022

- Ensured WCAG compliance by auditing UI components using ARC Toolkit and NVDA. Implemented full-stack accessibility fixes, including Angular ARIA attributes.
- Designed RESTful endpoints with Spring Boot and developed corresponding Angular components using RxJS to expand business capabilities.
- Conducted performance optimizations, reducing API response times through pair programming.
- Improved code quality + test coverage by implementing unit tests

Junior Software Engineer | Epam Systems | Belarus | Jun 2019 - Sep 2020

- Earned Java Foundation Mentor certification with distinction, mastering core Java concepts.
- Built educational Java applications using Spring Boot, JPA repositories, and MVC controllers .
- Designed and optimized data persistence with Hibernate ORM, improving database performance.
- Migrated legacy web projects from JDBC to Hibernate and Spring Core, transitioning databases from SQL to PostgreSQL for scalability.

Education

- **Epam Systems Academy** (Java programming) | Minsk, Belarus | May 2018 - May 2019
- **INDUSTRIAL TECHNICAL INSTITUTE** (Electronics and power control) | Cairo, Egypt | 2004

Certifications

- [Microsoft Certified: Azure Fundamentals \(AZ-900\)](#) | 2023
- [Epam Internal Training Diploma](#) | 2020

Languages

- Arabic (Native), English (C1), Russian (B2), Polish (Basic)

Interests

Content Creation (Technical and more) | Teaching Diving | Active lifestyle | Reading and searching