AHMED ELAKEED

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SOFTWARE ENGINEER

Skilled Software Engineer with 2 years of hands-on experience developing, designing and analyzing distributed and web-based applications using Java and Spring boot. Hands on experience adapting the agile software development methodology in the healthcare, finance, billing and communication sectors. Excellent knowledge of Java/J2EE technologies like JSP, Servlets, Spring Framework, and Hibernate, as well as core object-oriented programming concepts (OOPS) such as concurrency, persistency, and multi-threading. Expertise in relational databases and query construction using SQL, Oracle, MS SQL Server, and MySQL.

Webservices • Object Oriented Programming • Database Design • Design Patterns • CI/CD
Domain Driven Design • Test Driven Design • Microservices • Data Structures and Collections

Languages: Java, JavaScript
Web: HTML, CSS, Http, WebSocket
Web Services: REST, SOAP, GraphQL
Web/App Servers: Apache Tomcat, JBOSS WildFly
Frameworks: Spring Framework, Spring Boot, Spring Security, Spring MVC, Spring Cloud, Spring Data, Spring JPA, Spring AOP, Hibernate, ReactJs, Angular
Databases: MS SQL, MySQL, Oracle, MongoDB
Design Patterns: Singleton, Factory, Abstract Factory, Observer, Proxy, Facade, Builder, MVC
SDLC: Agile, Waterfall
Tools: Maven, Gradle, IntelliJ, Postman, SOAP-UI, Docker, Kafka, Kibana, MySQL Workbench, JIRA, AWS
Platforms: MacOS, Windows, Linux

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

AMAN HOLDING, Cairo, Egypt • 05/2023 – 10/2023
Fintech company.

Software Engineer
Designed, developed, and maintained billing and e-finance solutions.
- Spearheaded the development of backend systems using Apache Camel, orchestrating seamless data flow automation, and delivering a remarkable 100% reduction in manual processing costs.
- Managed transactional data across Oracle and MySQL databases, which optimized performance and processing of financial transactions.
- Led rigorous testing initiatives for backend systems, identified and resolved issues to increase the reliability of billing and e-finance payment processes.
- Engineered and fine-tuned Apache Camel routes for ETL processes, yielding a 45% reduction in data processing time and enhancing operational efficiency.
- Implemented the iBatis ORM framework to streamline database operations, achieving a 20% reduction in query execution time and enhancing overall system performance.

Technologies Used: *Java, iBatis, Apache Camel, Oracle, MySQL, SOAP, SOAP-UI, REST APIs, Postman, Intellij, Git, GitLab*

ASSET TECHNOLOGY GROUP, Cairo, Egypt • 04/2022 – 04/2023
Software solutions company.

Software Engineer
Developed, designed, and implemented software system to deliver complex Messaging product (ARROW) including features to send and receive correspondences and letters between all ministries of the New Administrative Capital in Egypt.

- Implemented and managed RESTful endpoints using Spring Boot, which streamlined the lifecycle and messaging interactions between services which enhanced overall efficiency resulting in load handling more than 1000 users.
- Revamped security protocols by implementing Single Sign-On (SSO) with Spring Security, OAuth, and JWT, significantly bolstering security measures and reducing password fatigue and simplifying authentication processes while enhancing overall security.
- Developed UI components integrating seamlessly with REST APIs using Angular and TypeScript, resulting in a visually engaging and user-friendly interface.
- Implemented and managed SOAP services to streamline communication across various ministries, enabling seamless exchange of correspondence and letters for enhanced efficiency.
- Conducted thorough code testing with JUnit and Mock frameworks, achieving a code coverage of 80%, resulting in a 70% reduction in software bugs.

Technologies Used: *Java, J2EE, Angular, Spring Boot, Hibernate, Restful web services, TypeScript, SOAP, Postman, SOAP-UI, IntelliJ Idea, WebStorm, Eclipse, Maven, GIT version control, Oracle, Microsoft SQL server, SonarQube*

ADVANCED INTELLIGENT TECHNOLOGIES (ADVINTIC), Cairo, Egypt • 10/2021 – 03/2022
Health care and medical solutions company.

Software Engineer
Designed, tested, implemented, and maintained Health Care Systems.
- Designed and implemented software products that simulate live surgery for training using Spring Boot, JSF, PrimeFaces, Spring Security, J2EE and Java frameworks.
- Optimized data access and performance by implementing and maintaining database queries through Spring JPA and HQL, resulting in reducing data access time by 20% and enhanced overall system performance.
- Streamlined communication and data sharing among services by implementing RESTful web services using Spring Boot facilitating seamless communication and reduced complexity within the system.
- Enhanced back-end flow analysis by leveraging logging utilities such as the ELK stack and Aspect-Oriented Programming (AOP) addressing cross-cutting concerns, promoting decoupling within the codebase, and facilitating comprehensive tracking and analysis.
- Conducted rigorous code testing with JUnit and Mock testing methodologies, leading to improved error tracking and a 35% reduction in software bugs.
- Implemented Elasticsearch, Logstash, Kibana (ELK) to store and visualize server logs and processes, which enhanced the speed and efficiency of log searching leading to more effective monitoring capabilities and streamlining system performance.

Technologies Used: *Java, J2EE, JSP, JSF, PrimeFaces, JavaScript, Hibernate, MySQL, Elasticsearch, Logstash, Kibana, Spring Boot, Spring Security, Spring Data, Spring AOP, REST webservices, Postman, IntelliJ Idea, GIT version control, Maven*

ACADEMIC PROJECT

Maharishi International University (2024) University Attendance System: Platform designed to streamline attendance tracking for professors, students, and staff across multiple campus locations. Utilized Java, Hibernate, Spring boot, Spring Security, Spring AOP, Spring MVC, REST APIs, MySQL, Docker, ELK stack, JUnit, Mockito, Postman, IntelliJ, Git, MongoDB
https://github.com/Ahmed-Elakeed/cs544-202403-project

PERSONAL PROJECT

Top Job (2022): Comprehensive platform designed to help users create resumes quickly and efficiently by allowing them to create profiles and input necessary data. Utilized Java, Hibernate, Spring, MySQL, REST APIs, JWT, AOP, Swagger, Angular, TypeScript, HTML, CSS, JavaScript, Bootstrap
https://github.com/Ahmed-Elakeed/TopJob

EDUCATION

Master's in Computer Science
(In progress via distance education; expected completion 07/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Programming, Enterprise Architecture, Software Architecture, Advanced Software Development