

## HASSAN MOHAMMED

### Lead Software Engineering

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- **Arabic Language:** Mother Tongue.
- **English Language:** Fluent in Speaking, Listening, Writing and Reading (Full Professional Proficiency).

#### - PROFILE:

Dynamic and results-driven Lead Software Engineering with extensive experience in designing, developing, and integrating sophisticated banking and payment systems. Proven track record of leading cross-functional teams to deliver unified services and payment platforms, enhancing mobile and internet banking capabilities, and integrating third-party systems with banking services. Adept at providing project management, technical support, and establishing best practices for system integration. Expertise in API development, service integration, and application development across various banking and healthcare environments. Highly skilled in aligning technology solutions with organizational goals to drive operational efficiency and customer satisfaction.

#### - WORK EXPERIENCES:

##### **Lead Software Engineering, Export Development Bank, Sudan, Dec., 2020 – Present**

###### *Responsibilities and achievements:*

- Architected and led a team for designing and developing a unified services and payment platform (services and payment aggregator).
- Integrated with Mobile banking and Internet banking.
- Implemented machine learning models using Python to enhance fraud detection within mobile and internet banking platforms.
- Led the team to integrate the service of the National Switch (Based on ISO-8583), using Java and Spring Boot framework.
- Integrated third-party systems with banking services, including government sectors and universities for electronic payments, using Java and Spring Boot framework.
- Developed microservices using Java and Spring Boot for the payment platform, ensuring high performance and scalability.
- Provided essential core Project Management, team leading, and technical support to architects.
- Established and implemented best practices for a complete services aggregator integrated with Temenos (T24) Core-Banking System, maintaining standards, prescriptions, and fraud detection protocols.
- Developed applications that interface with RESTful services including Web service and liaised between managers and solution/architecture engineering, with a focus on securing data and preventing fraud.
- Provided technical support, supervision, and close follow-up for projects, ensuring the integration of fraud detection systems across all platforms.
- Enhanced system performance and security by optimizing code in Java and Spring Boot, with a focus on minimizing vulnerabilities and potential fraud risks.

##### **Lead Software Engineering, al Baraka Bank, Sudan, October 2017 – December 2020**

###### *Responsibilities and achievements:*

- Planned, developed, built, and tested service and API integration services based on JSON objects and data-driven design.
- Developed SOAP and RESTful API webservice.
- Proficient in .NET WCF framework, Spring Boot framework, research, technical design specifications, and test scripts.
- Developed and maintained complex software applications supporting business units' functions and project management.
- Worked with SMPP protocol and SMS Gateway.
- Integrated the core-banking system with the bank portal (business workflow)
- Reduced SMS response time by 100 times through SMPP integration (transaction alert, customer's notifications, system alert).
- Integrated third-party systems with banking services, including government sectors, airlines companies, and universities for electronic payments.
- Integrated the backend of the mobile platform with core-banking.

###### **Previous Roles**

- Freelance Payment Systems Developer, *March, 2017 – Oct., 2018; Sudan*
- IT Infrastructure and Systems Manager; Universal Hospital, Feb., 2016 – Feb., 2017, Sudan:
- IT Officer; Khartoum College for Medical Sciences, March, 2014 – Feb., 2016; Sudan:
- Senior Software Developer, LIN SCAN Advanced Pipeline & Tank Services, July, 2012 – April, 2013, UAE:
- Software Developer; Meditech for Varieties System Co; July, 2011 – July, 2012, Sudan:
- Senior Software Developer; Alforat Medical Company Ltd., Sudan April, 2008 – May, 2011
- Software Developer; Meditech for Varieties System Co., Sudan, May, 2003 – March, 2008:
- Computer Center Coordinator; University of Khartoum – Medical & Health Sciences Campus, Sudan, Dec 1999 – April 2001:

## - EDUCATION:

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- M.Sc. in Computer Sciences, University of Khartoum, Sudan, Jul, 2003
- B.Sc. in Mathematical Sciences (Mathematics & Computer Science), Sep , 19999

## - CERTIFICATES:

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- **Solving Problems with Creative and Critical Thinking**  
an online non-credit course authorized by IBM and offered through Coursera, Jun, 2024  
<https://coursera.org/verify/37C2JZSYWBCY>
- **The Future of Payment Technologies**  
an online non-credit course authorized by University of Michigan and offered through Coursera, Jul,2024,  
<https://coursera.org/verify/DSY3LPGLP2W8>  
**FinTech and the Transformation in Financial Services**  
an online non-credit course authorized by Copenhagen Business School and offered through Coursera, Jul, 2024,  
<https://coursera.org/verify/7X9G6Y999Q8J>
- **Digital Business Models**  
an online non-credit course authorized by Lund University and offered through Coursera, Aug, 2024  
<https://coursera.org/verify/GMNHBLTPSGTI>

## SKILLS:

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### Hard Skills

- Design Patterns, Object-Oriented Analysis and Design, RESTful API Design
- High-Performance Tuning
- Software Architecture, Service-Oriented Architecture (SOA), Legacy System Re-architecture
- Project Management, Software Development Processes
- Back-End Web Development, REST APIs
- Troubleshooting & Debugging, System Security & Threats
- Linux, Centos 7, MS-Windows
- Spring Boot, Spring Boot, Spring WS, Spring Rest, Microservices Spring Security, Spring Cloud, Dockers
- Short Message Peer-to-Peer (SMPP), ISO 8583
- Core and advanced Java, C#, C++, Python
- PostgreSQL, MySQL, SQL Server and Oracle
- LINQ, Entity Framework, JPA, Hibernate
- CI/CD, Git
- RabbitMQ, ActiveMQ
- .Net Core, WCF, ASP.NET MVC, Web API,
- Representational State Transfer (REST)
- Customer Requirements
- Management Information Systems (MIS)
- Web Services API

### Soft Skills

- Highly competent in administrating and implementing different Software Projects, tasks, and activities
- High-quality Proposals and Reports Writing.
- High-Performance Tuning
- Mentorship & Leadership
- Software Development Processes
- Project Management
- Technical Decision Making
- Cross-Team Collaboration
- Performance Benchmarking
- Capacity & Performance Planning
- Solving Problems with Creative and Critical
- Thinking