

Ameen Demiry (Mohamed Ibrahim)

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I am a senior engineer with extensive experience in developing distributed and cloud-based solutions, a proven track record of leading teams toward success, and using my expertise to set the vision, coach, and motivate team members. I deliver high-quality solutions on time while balancing the 4Ps - Priorities, People, Product, and Process. With a strategic mindset, I am continuously focused on identifying, isolating, prioritizing, and fixing complex issues.

AREAS OF EXPERTISE AND SKILLS

- Software Development
- Process Improvement
- Python, C++, Node, React
- SDLC, CI/CD
- Cloud Platforms: AWS, Azure
- Generative AI, ML, LLM, RAG, Prompt Engineering
- Data and Visual Analytics
- Test Automation Framework
- Full Stack Development
- API Design
- UI/UX Design
- Performance and Reliability Monitoring
- Front-end Development (JS, Script#, DOM injection, React, D3)
- Back-end Development (C++, C#, Python)
- Cybersecurity

CERTIFICATIONS

- AWS Certified Cloud Practitioner Fundamentals
- AZ-900: Azure Fundamentals
- AI-900: Azure AI Fundamentals
- SC-900: Microsoft Security, Compliance, and Identity
- DP-900: Azure Data Fundamentals
- Alteryx, Foundations
- Alteryx, Machine Learning Foundation
- PMP Certified (Expired)

EXPERIENCES

Senior Software Engineering Manager AI/ML, Moderna [06/2023 – 02/2024]

- Led a team of five, fostering trust and cohesion through clear rules and focused meetings.
- Built and introduced mChat, an LLM chatbot, recognized in an investor call, used by the majority of Moderna employees.
- Spearheaded the development of a versatile Gen AI platform for cross-functional applications.
- Added multi-model and multi-modality support, integrating Open AI functions for seamless web browsing, RAG, and image creation capability support.
- Guided continuous deployment and refinement of Scrum practices, ensuring adaptability through regular reevaluation and testing with Cypress test framework.

Software Engineering Manager, Tableau [03/2015 - 03/2023]

- Managing two distinct teams.
 - Doubled Visualization Pipeline team (3 Principles, 1 Lead, and 3 Seniors).
 - Cloud migration for Product Internationalization (3 Senior SWE, 1 lead, 1 Project manager, and 8 contractors).
- Led cloud migration for Product Internationalization, involving 3 Senior SWEs, 1 lead, 1 Project manager, and 8 contractors.
- Shipped Image role on time without scope reduction, coaching and reviewing design and code, priorities.
- Built CI/CD pipeline for VPT and Qt teams, deploying C++, Emscripten, and JS across Windows, OSX, and Linux, using TeamCity, CMake, and Python.
- Monitored, analyzed, and reported scalability of Tableau data engine (Hyper) using TabJolt, designing scalability scenarios, and finding and resolving issues.

Software Development Engineer II, Microsoft [03/2007 - 03/2015]

- Designed and delivered features for Windows and Office on Apple OSX and iOS, in a live, complex, and highly-scaled production environment.
- Led right-to-left (RTL) support in Office APEX, reimplementing Windows and Office code for Apple OSX and iOS.
- Designed and implemented Extensible Incident Detection Utility for SQL Azure.
- Built software testing programs to automate testing processes and recommended product improvements.
- Microsoft Gold Star Award, 2008.

Software Engineering Manager, Harf Information Technology (Egypt) [01/2001 - 03/2007]

- Led a team of 3 software engineers. Technical scope: Microsoft PocketPC (C++. embedded devices) and Middle tier of web portals, business logic, and search engine integration.
- Developed a full-stack web portal using MVC architecture for a manuscript archive using technologies like VC++6, WSC, ASB, VB6, VBA, Win32 API, SQL Server 7/2000, HTML (DHTML, CSS), XML (XSLT, DTD), and COM.
- Innovated a security solution for downloadable applications by creating a Win32 PE EXE encryptor/protector, enhancing application security against unauthorized access and use.

EDUCATION

- Bachelor of Science (B.Sc.), Systems and Bio-Medical Engineering - CAIRO UNIVERSITY, Cairo, Egypt