

Mohamed El-Bably

Software Engineer,
Architect & Technical
Manager

[Linkedin](#) - [Github](#)

Skills

Mohamed El-Bably

6 Abu Baker Al Siddiq St.
Al Kanater El Khairia, Qualiobia, Cairo - Egypt

+201001853405
dotmmh@gmail.com

Application Architecture, Integration Architecture, Microservices, TypeScript, Node.js, SQL, NoSQL, MongoDB, Redis, RethinkDB, AI, Socket.IO, gRPC, RESTful, Express, Koa, React.js, Vue.js, Ethereum, Solidity, IPFS, gRPC, AWS, GCP, Git, Docker, Linux.

Experience

Cybertron International / Technical Manager, Architect

JUL 2023, USA - Remote

Tech: Node.js, SQL Server, MongoDB, Redis, Lua, Vue.js, GitHub Actions, GCP, App Engine, Cloud Functions, Pub/Sub, ChatGPT, Open Source AI Models

- Implemented an innovative project leveraging state-of-the-art AI large language models to develop an interactive assistant aimed at facilitating clients in constructing their ideal PC setups.
- Tasked with architecting and spearheading the development process, I meticulously designed the system's architecture, ensuring seamless integration of AI capabilities.

Roadrunner / Engineering Manager, Architect

AUG 2022 - JUL 2023, Maadi - EGYPT

Tech: Node.js, Flutter, MongoDB, Redis, Lua, Vue.js, GitHub Actions, GCP, App Engine, Cloud Functions, Pub/Sub, OpenAPI

- Working on B2C SaaS application for delivery and tracking.

Botter / Engineering Manager, Architect

APR 2021 - AUG 2022, Smart Village - EGYPT

Tech: Node.js (TypeScript), Python, fastText, Postgres, MongoDB, Redis, Lua, Vue.js, Azure, Kubernetes, OpenAPI

- Created an intelligent solution utilizing enterprise tools and AI technology to simulate human conversations via text or voice channels, available both on-premises and as a cloud-based SaaS product.
- Developed a large-scale distributed spell checker for internal use, enhancing the accuracy and reliability of text-based communications.
- Engineered a cutting-edge flow render engine, simplifying the construction of chatbot conversation flows with elegance and efficiency.
- Addressed scalability challenges by implementing a lightweight AI engine, ensuring seamless performance across diverse usage scenarios.

Roadrunner / Engineering Manager, Architect

OCT 2020 - APR 2021, Maadi - EGYPT

Tech: Node.js, Flutter, MongoDB, Redis, Lua, Vue.js, GCP, App Engine, Cloud Functions, Pub/Sub, OpenAPI

- Led the design and development of a cutting-edge SaaS (Cloud Native) application tailored for delivery management, featuring robust real-time raiders management and tracking functionalities.
- Tasked with architecting a scalable and efficient solution, I meticulously crafted the system's architecture to ensure optimal performance and reliability.
- Developed integration architecture to seamlessly connect the application with third-party systems and services, facilitating interoperability and data exchange.

Bites / Engineering Manager

JUL 2019 - OCT 2020, Sheikh Zayed - EGYPT

Tech: Node.js, MongoDB, Java, Swift, Vue.js, Redis, GCP, Kubernetes, Cloud Functions, Pub/Sub, OpenAPI

- Created a versatile food ordering platform accessible via web browsers, Android, and iOS devices, with a robust backend built on Node.js and deployed using Kubernetes.
- Engineered a sophisticated recommendation engine to provide personalized meal suggestions based on user preferences and behavior.

Algorithm Innovative Solutions (UAE) / Engineering Manager

JAN 2018 - JUN 2019, SMART VILLAGE - EGYPT

Tech: Node.js, Python, Java, Swift, MongoDB, Redis, Vue.js, GCP, App Engine, Cloud Functions, Pub/Sub

- Led the design, development, and execution of internal projects focused on Augmented Reality (AR) and Civil Engineering, as well as public services.
- Designed and developed solutions that are compatible across multiple platforms, including Web, Android, and iOS, ensuring widespread accessibility and usability.

Cybertron International (USA) / Senior Engineer & Team Leader

AUG 2015 - DEC 2017, SMART VILLAGE - EGYPT

Tech: Node.js, Python, MongoDB, MSSQL, Redis, Angular.js, React.js

- Led the design and development of projects for external clients located in the United States while also overseeing internal software projects and their operational aspects.
- In this multifaceted role, I managed a diverse portfolio of projects, ensuring their successful execution and delivery to meet client expectations and organizational goals.

Softoria Tech / Senior Software Engineer

JUN 2009 - FEB 2015, NEW MAADI - EGYPT

Tech: C++, C#, OpenGL, GDI+, DXF, MSSQL, Redis

- Designed and developed specialized software tailored for civil and telecommunications engineers.

- Tasked with creating a comprehensive solution to address the unique needs of these professionals, I focused on delivering intuitive tools and features to enhance productivity and efficiency in their daily workflows.

Consultancy

Qgo Online (Kuwait) - Technical Consultant

Conducted an extensive technical assessment of the Qgo system to facilitate informed decision-making regarding the acquisition of the system's source code or the development of an in-house product with a new team. The assessment encompassed various components of the system, including a robust backend infrastructure with multiple integrations, a website, and Android and iOS applications.

Covered Areas: Technology Stack Evaluation, Development & Maintainability Assessment, Testability Analysis, Operation & Release Procedure Review, Scalability Examination, and Security Assessment.

Supplyfied (Saudi Arabia) - Technical Consultant

Offered technical consultancy services to support Supplyfied in selecting an appropriate technology stack and designing a scalable architecture for their platform, which caters to the hospitality sector in Saudi Arabia. This involved providing insights and recommendations across various domains.

Education

Menoufia University / Postgraduate Diploma

JAN 2010 - JAN 2012, FACULTY OF COMPUTER AND INFORMATION

In addition to academic studies, I also studied computer science and programming through many grants from Microsoft, IBM, and online platforms like EDX and Coursera.

Awards & Achievements

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- AWS Cloud Architect Nanodegree - [Udacity](#)
 - Product Manager Nanodegree - [Udacity](#)
 - Blockchain Developer Nanodegree - [Udacity](#)
 - Huawei Developers Competition, Best HMS Core Innovation Award (Middle East) - 2021
Controlling presentations and games with mobile, including the usage of device motions (Through Accelerometer and gyroscope sensors) [Competition Video](#)
 - Huawei Developers Competition, Honorable Mention (Middle East) - 2020
 - Huawei Developers Competition, Best App Golden Award (Egypt) - 2020
 - Mobile Gamepad App, has more than 3 million downloads and mentioned on XDA blog post - 2014 [XDA-DEVELOPERS](#)
 - Samsung Developer Challenge Initiative winner - 2014 SAMSUNG
 - MongoDB Developer (Using Node.js) - 2013 MongoDB INC
 - MCP, MCAD - 2007 MICROSOFT CORPORATION
 - A desktop utility I developed (MMH Cleaner) was selected as one of the top 20 freeware in PCWorld magazine (Poland) - 2005 [PCWorld](#)