

# Basil Abubaker

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## Full Stack Developer

Experienced Full Stack Developer with over 10 years in the Engineering, Procurement, and Construction (EPC) and E-commerce sectors, specializing in scalable solutions, performance optimization, and cost-saving innovations. Proficient in APIs, complex databases, and modern web technologies like Angular, Node.js, .NET Core, and SQL. Collaborative team player with a passion for mentoring new developers.

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Object-Oriented Programming • Design Patterns • Front-end Frameworks and Libraries • TDD Responsive Web Design  
CI/CD • Version Control Systems • Database Design and Optimization • SOLID • DevOps • Cloud Computing  
Microservices • Containerization • Orchestration • Reverse Proxy / Load Balancing

**Languages:** C#, Python, VB.NET, JavaScript

**Web:** HTML, CSS, Bootstrap, JQuery, TypeScript, Angular, Vue.js

**Web Services:** RESTful Services, SignalR, Kafka, cert-manager, Let's Encrypt

**Web/App Servers:** AWS Cloud Services, Kubernetes, NGINX, Cloudflare, IIS

**Frameworks:** Angular, Node.js, Express.js, .NET Framework, .NET Core, ASP.NET MVC, Entity Framework, NuGet

**Databases:** MSSQL, MySQL, Oracle, MongoDB

**Design Patterns:** Singleton, Factory Method, Facade, Adapter, Composite, Proxy, Decorator, Template Method, Chain of Responsibility, State, Command, Mediator, Observer, MVC

**SDLC:** Agile (Scrum/Kanban)

**Tools:** GitHub, Azure DevOps, Visual Studio Code, Git, Postman, Swagger / OpenAPI, AVEVA ERM, KNIME Analytics Platform, Highcharts, Datatable, Firebase API

**Platforms:** Windows, Linux, MacOS, Cloud Platforms

**Application/Software:** AVEVA ERM, AVEVA CRM

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## 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).

### NMDC Group, Abu Dhabi, UAE • 06/2019 – 04/2024

A prominent engineering and construction company specializing in marine, dredging, and civil projects.

#### Sr. System Analyst (08/2021 – 04/2024)

Developed and implemented enterprise-level .NET Core and Angular applications, automating workflows, standardizing procedures, and improving communication for cost savings and efficiency.

- Created an AI-powered procedure retrieval system using .NET Core, Node.js, C# and Python, featuring document scanning and categorization, role-based access, and GPT-driven Q&A, enabling engineers to quickly access procedural information via natural language queries.
- Implemented the Engineering Best Practices (EBP) system by adding critical features such as automated workflow approvals, standardized procedure templates, and integration with existing engineering tools using C#, Angular, Crystal Reports, and MSSQL Server, resulting in standardized procedures across engineering teams.
- Developed the Hold Management System (HMS) by implementing key features like automated hold notifications, streamlined communication channels, and project delay tracking mechanisms using .NET Core, Node.js and Angular, automating hold notifications, streamlining communication, and reducing project delays.
- Built the Electronic Site Query (eSiteQuery) system by adding critical features such as real-time cross-functional communication, enhanced response time tracking, and improved project coordination tools using .NET Core, Angular, and SignalR, facilitating cross-functional communication, improving response times.

#### Sr. Systems Developer (06/2019 – 07/2021)

- Created the Project Engineering Manager Portal (PEM) adding key features such as real-time project monitoring, customizable dashboards, and automated report generation using ASP.NET Core, Highcharts, jQuery, and CSS, resulting in improved efficiency and cost savings of \$2.5 million.

- Designed the Flange Management System adding critical features such as flange integrity tracking, maintenance scheduling automation, and compliance reporting using .NET Core, C#, Angular, Crystal Reports, and MSSQL Server, achieving 27% cost savings and winning an innovation award.
- Developed the e-Filing & e-Signature of Completion Sheets implementing key features such as electronic completion sheet filling, digital signature integration, and secure document management using .NET Core, C#, Angular, Crystal Reports, and MSSQL Server, resulting in a nomination for an innovation award and \$1.9 million in cost savings.

**Technologies Used:** Angular, Vue.js, jQuery, CSS, Bootstrap, Node.js, C#, .NET Core, REST APIs, Oracle, MySQL, MSSQL, Entity Framework, AWS, Microsoft Azure, IIS, GitHub, DevOps.

### **NMDC Energy (formerly known as NPCC), Abu Dhabi, UAE • 05/2015 – 06/2019**

A leading provider of engineering, procurement, and construction (EPC) services in the energy sector.

#### **Sr. Systems Developer (07/2017 – 06/2019)**

Developed .NET Core and Angular applications to streamline project management, vendor mobilization, and engineering workflows, improving efficiency and collaboration.

- Implemented a corporate eSignature workflow adding key features such as digital signature integration, automated document routing, and secure encryption for project documentation using .NET Core and Angular, achieving 6 million AED in cost savings and winning an innovation award.
- Developed the Digital Vendor Mobilization Plan (DVMP) platform implementing key features such as real-time vendor tracking, automated scheduling, and onshore/offshore activity coordination using .NET Core and Angular, improving coordination and scheduling.
- Engineered the Hold Tracking System (HTS) adding critical features such as automated hold notifications, real-time status updates with SignalR, and enhanced communication tools using .NET Core, Angular, and SignalR, reducing project delays and improving communication.
- Built the Permit to Work (PTW) web application implementing key features such as streamlined permit issuance processes, safety compliance checks, and real-time approval tracking using .NET Core and Angular, enhancing site efficiency and safety.

#### **Systems Developer (05/2015 – 06/2017)**

- Implemented the Inter Discipline Check (IDC) application adding key features such as automated document workflows, real-time collaboration tools, and cross-discipline communication channels using ASP.NET MVC, jQuery, and CSS, facilitating collaboration between engineering disciplines.
- Developed the Engineering Change Control system implementing critical features such as automated change control procedures, compliance enforcement mechanisms, and error-reduction tools using ASP.NET MVC, Entity Framework, jQuery, and CSS, ensuring compliance and reducing manual errors.
- Created the Engineering Databank (EDB) adding essential features such as centralized data storage, user-friendly search functionality, and team collaboration tools using ASP.NET MVC, MSSQL, jQuery, and CSS; centralizing project and engineering data to facilitate easy access and collaboration among teams.

**Technologies Used:** Angular, Vue.js, jQuery, CSS, Bootstrap, C#, .NET Core, Node.js, REST APIs, Oracle, MySQL, MSSQL, Entity Framework, AWS, Microsoft Azure, IIS, GitHub, Azure DevOps.

### **Altorath International Engineering Consultants L.L.C (AIC), Abu Dhabi, UAE • 11/2014 – 05/2015**

Leading multidisciplinary engineering consultancy firm based in Abu Dhabi, UAE.

#### **Web Developer**

- Developed an employee self-service portal for Altorath International Engineering Consultants adding key features such as leave request submission, salary information access, and support ticketing using ASP.NET MVC and SQL Server, enhancing operational efficiency.
- Integrated the portal with existing HR and payroll systems implementing key features such as automated data synchronization, real-time data updates, and error reduction mechanisms using RESTful APIs, reducing manual entry and errors.
- Optimized application performance adding critical improvements such as fine-tuning database interactions, optimizing Entity Framework and LINQ queries, and performance tuning; resulting in a 30% reduction in load times and improved responsiveness.
- Collaborated with HR and IT teams contributing to requirements gathering, scalable web solution development, and alignment with organizational objectives; delivering web solutions that aligned with company goals.

**Technologies Used:** jQuery, Bootstrap, C#, .NET MVC, REST APIs.

## **Intertech Web & Mobile, XR Development, Ramallah, Palestine • 06/2012 – 10/2014**

One of the first web development companies in Palestine, serving diverse clients with professional e-services.

### **Web Developer**

Developed responsive websites for multiple companies using ASP.NET, jQuery, Bootstrap, and PHP to showcase services, projects, and client testimonials, enhancing the company's online presence.

**Technologies Used:** *Bootstrap, JQuery, CSS, ASP.NET, PHP, MYSQL, MSSQL.*

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## **ACADEMIC PROJECTS**

### **Maharishi International University (2024)**

- **Hard Hat Safety Detection System:** Developed a deep learning-based safety system to detect the presence of hard hats on construction site workers. Utilized a Convolutional Neural Network (CNN) model trained on custom datasets to identify individuals not wearing safety helmets. Integrated the system with real-time video feeds using OpenCV for continuous monitoring and alert generation in case of safety violations. This project aimed to enhance workplace safety by automating compliance checks. Utilized Python, OpenCV, TensorFlow, Keras, Deep Learning, Computer Vision.
  - **Real-Time Social Media Post Analysis:** Developed a real-time data pipeline for analyzing social media posts from Riddet. Implemented a streaming API to collect data and publish it to Apache Kafka. Utilized Spark Streaming to process the data in real time and performed complex queries using Spark SQL. Stored the processed data in HBase for efficient querying and analysis. This project enabled sentiment analysis and topic modeling on large-scale social media data, providing insights into public opinion trends. Utilized Apache Kafka, Apache Spark, Spark Streaming, Spark SQL, HBase, Java, Python.
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## **PERSONAL PROJECTS**

**Marketplace Management System (MMS) 2020-2022:** Developed a Marketplace Management System (MMS) over a two-year period, enabling the creation of stores for online sales with ease. Optimized the setup process to allow new customer configurations in just 10 minutes, providing a complete store equipped with robust back-end management and SEO features. The MMS integrates seamlessly with Google Merchant and Facebook Marketplace, delivering a fast and responsive experience for both sellers and customers. Utilized .NET Core, Vue, AWS, CSS, HTML.

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## **EDUCATION**

### **Master of Science in Computer Science**

*(In progress via distance education; expected completion 12/2026)*

Maharishi International University, Fairfield, Iowa

*Key Courses: Enterprise Architecture, Machine Learning, Big Data Technologies, Cloud Computing*

### **Bachelor in Bachelor of Computer Science**

An-Najah National University, Nablus, Palestine (05/2012)

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## **CERTIFICATIONS**

[AWS Cloud Technical Essentials](#) (10/2024)

[Developing Back-End Apps with Node.js and Express](#) (10/2024)

[Agile Project Management](#) (09/2024)

[Programming with Python](#) (01/2023)

[Neural Networks and Deep Learning](#) (02/2023)

[TensorFlow for Artificial Intelligence](#) (01/2023)

[Microsoft Power Platform Fundamentals](#) (01/2023)