

Ahmed Kamal Mohamed DAWOOD

6th of October City, Giza, Egypt

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Objective:

As an Engineering Software Developer with a Civil Engineering Informatics diploma and a Civil Engineering bachelor's degree, I am highly motivated, creative, and eager to learn. I am seeking to leverage my knowledge and skills to help create innovative solutions that can be beneficial for the engineering industry.

Work Experience:

Oct. 2021 – Present

Remotely

Software Developer at DiRoots

- Designed and implemented custom Autodesk Revit solutions using .NET Framework with WPF and MVVM design pattern.
- Created AutoCAD plugins using AutoCAD Core Console and AutoCAD API using .NET and handling it from external apps such as Revit.
- Developing web APIs using ASP.NET Core.
- Participated in code reviews manually and with sonarQube.
- Worked on GIS solutions using NASA database, OpenStreetMap, osmium and Maperitive.
- Worked on migrating desktop application business logic to a web API.
- Refactored existing legacy code and upgrading to modern frameworks.
- Implemented unit testing using xUnit and Moq Framework.
- Worked in agile workflow using Jira.

Jan. 2020 – June 2020

On-Site

Geotechnical Engineer at Geo-Cairo Engineering

- Applying lab tests on borehole samples, calculating results according to ECP and ASTM codes.
- Created Logs Builder which is an innovative solution to help engineers easily plot logs for different boreholes throughout a simple excel user-form using VBA.

March 2021 – Present

Freelance

Freelance Software Developer

- Developing Web Applications/Web APIs using ASP.NET Core
- Automating MS Office services (Excel, Word, Outlook, etc.) using VBA
- Web scrapping
- Developing custom desktop applications

Education:

Oct. 2020 – June 2021

Professional Diploma in software development, Civil Engineering Informatics, Information Technology Institute (ITI), Giza, Egypt

- Graduation Project: a web-based structure analysis software service for solving structural systems using Three.js and WebGL for graphics, asp.net core for backend and SAP2000 API as a finite element solver.

Sep. 2014 – July 2019

Bachelor of Science in Structural Engineering, Cairo University, Egypt

- Accumulative GPA: **3.51** out of **4** (Grade: **B+**)

Internships:

In 2020

Participated in the Egypt FWD initiative (Data Specialization – Challenge Track)

In 2018

Trainee Highway Site Engineer at Arabs Contractors, Giza, Egypt

In 2018

Trainee Design Engineer at Center of Design & Engineering Consulting, Giza, Egypt

Volunteering Activities:

Since 2017 Co-Founder and Coach at DOSS CUFE (Developing Organized Students' Society)
In 2015 Math Teacher at Credit Club CUFE in a charity school in Btn el baar village

Skills:

Soft Skills: Problem solving, Teamwork, Research, Time management & Efficient Communication

Languages: Arabic (native), English (Fluent) & German (Beginner)

Programming Languages and Development Skills: Good Knowledge of:

- C#, VBA
- ASP.NET, .NET Framework, and .NET Core
- Parallel and Async Programming.
- RESTful API
- Entity Framework, SQL, and Database Design Fundamentals
- WPF Framework and MVVM design pattern
- Object-oriented Programming
- Version control using git and GitHub
- Revit API, SAP2000 API and AutoCAD API

Basic Knowledge of:

- Microsoft Azure
- JavaScript
- Three.js and IFC.js
- Rhino API and Grasshopper
- Python

Personal Info:

Military Status Exempt
Marital Statuses Married
Born Date 22 January 1997
LinkedIn <https://www.linkedin.com/in/ahmed-k-dawood/>

References:

Available upon request