Ahmed Shaban Helwa

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CV   https://git.io/Jk9wy

Profile

Professional full stack web developer

EECE BSc, Cairo University, 2018

Exempted military status - 2019

SW enthusiastic, Hard-worker, Problem solver, Self-learner, Curious of learning and self-development.

Experience

Backend developer
WideBot | 8/2020 - Now
Chatbots solutions company (*Link*)

Works on integrating WideBot platform with customers' requirements and APIs. Projects details in "Professional projects" section.

Key skills
- Experience in WebAPI design and consuming External APIs using ASP.NET Core in RESTfull architecture.
- Software development in compliance to SOLID principles, Design patterns and best-practice rules.
- Experience in Facebook messenger platform.
- Frontend tasks in JavaScript.
- Exposure to AWS services. CodeCommit, S3 buckets and Pipelines.
- Agile SW Engineering process over Azure DevOps.

Key Technologies
OAuth2 framework - HTTP protocol - .NET HttpClient framework - JSON and serialization - Postman - Logging using Serilog, elastic search and Kibana - Swagger - Globalization and localization using resource files.

Internship, Embedded Software Engineer
Valeo Egypt | 8/2018 – 2/2019

Develop and test Valeo GEEDS standard Bootloader in ISO 14229 - Unified Diagnostic Services (UDS) as main application and ISO 15765 - DoCAN – as the communication stack.

Training, Embedded Software
IBM Egypt | 8 ~ 10/2015

Training of automotive embedded software development introducing Renesas RL78/F14 MCU, Unit testing using IBM RTRT, static code analyzing using pc lint and CAN bus testing using Vector Canoe.

Professional Projects

WideBot - POSRocket
Assignment Description
Ownership and development of integrations SW with POSRocket platform. POSRocket is Jordanian-based specialized in Point-of-Sale solutions.
Contribution
Propose and develop more than 15 integrations endpoints that fulfill POSRocket User stories.
Develop response and DTOs models to consume
Develop authorization manager implementing OAuth2 to consume the client APIs.
Develop necessary assets and utilities that handle HTTP requests, environment variables and appsettings.
Test the endpoints against expected response in Postman and Facebook messenger.

WideBot - ExpandCart
Assignment Description

Development of integrations of WB platform with, an e-commerce solutions provider, ExpandCart.

Contribution

Development of 5 endpoints to perform authentication, shop language and shop cart managment to be integrated WideBot platform with ExpandCart platform.

Test the endpoints against expected response in Postman and Facebook messenger.

Test and document the full cycle of integrations.

WideBot - Shell
Assignment Description

Development of, world leading, Shell messenger chatbot.

Contribution

Integrate Google sheets in codebase in order to read Shell data.

Develop an endpoint to read from Google sheets, save the data into JSON file and upload it to AWS S3.

Develop a web view for shell oil's recommendation tool in html, JavaScript and Sass.

https://widebot-enterprises.s3.amazonaws.com/Shell/shell-oil-recommendation/main.html

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</> Technical Skills

Microsoft Technologies

- **.**NET Core 3.x, ASP.NET Core
- Entity Framework core, MS SQL
- MVC, Razor layouts, MVVM and Single-Page Applications
- **.**Net Base Class Library
- LINQ
- Dependency Injection

Web Technologies

- Web API design and integration
- JSON and serialization.
- HTTP Protocol
- HTML5/Sass/JavaScript
- Angular/TypeScript

Programming languages

- C#
- C/C++ and Assembly
- JavaScript

Programming techniques and paradigms

- Object-Oriented Programming
- Design Patterns
- SOLID Principles
- Linear data structures, sorting and searching algorithms
- Problem solver, CodeForces platform. *codeforces.com/submissions/ahmedhelwa/*

Tools and IDEs

- Git, GitHub and AWS CodeCommit
- MS Visual Studio, Visual Studio Code
- Embedded Development Tools: TrueStudio for STM32, STM Studio
- Command-Line Interface skills
- GCC Tool chain, GNU Make

Embedded Systems

- Strong C
- Interfacing
- ARM Cortex-M4
- RTOS
- STM32F4/TM4C123/ATMega32
- Embedded Software Design Patterns

Personal Projects

WideBot Hiring Task
Web API | ASP.NET Core | Docker
A Web API that maps the Facebook Messenger Send API to WideBot JSON API, to make a chat bot.
The API is implemented in ASP.Net Core 3.1, containerized in Docker image and deployed on Heroku
Cloud hosting.
Repo: *https://github.com/AhmedShabaanHelwa/Task*
Deployment: *https://a7mah1.herokuapp.com/api/integrator/{id}*
Solution Documentation:
https://github.com/AhmedShabaanHelwa/Task/blob/master/WideBot%20Internship%20task%20report.pdf

Dating website – A Facebook-like website
Web development | ASP.NET Core | Angular
The project of Udemy Course " Build an app with ASPNET Core and Angular from scratch " - *link*
ASP.NET 5, SQLite and Entity Framework as backend and Angular v10 as frontend are used for building
dating website.
https://github.com/AhmedShabaanHelwa/Udemy-DatingApp

Online shop for merchandises
Web development | ASP.NET Core

Fully functional web application for buying merchandises of famous Dutch artists like Van Gogh.
Client-side: HTML5, CSS3, JavaScript, Bootstrap4.1 and Angular 8.
Server-side: ASP.NET Core 3, MVC 6, Entity framework Core 3, and ASP.NET Identity.
https://github.com/AhmedShabaanHelwa/DutchTreat

Cooperative Scheduler
Embedded Systems | RTOS

A generic cooperative scheduler it can be integrated with any timer peripheral whether a generic or
SysTick one.
https://github.com/AhmedShabaanHelwa/Cooperative-scheduler

GitHub Repository

https://github.com/AhmedShabaanHelwa

Education

BSc Electronics and Electrical Communications
Cairo University | 2012 - 2018

Extra-curricular activities

Embedded systems instructor
Unmanned aerial systems Development Center,
Aerospace Department. Cairo University | 11~12 / 2019

Provide a six-lecture tutorial that introduces basic computing mathematics.
Quick tour of C programming language, introduction to embedded systems and ARM architecture, and
GPIOs in TM4C123x microcontroller.