

Nabil Alhaffar

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Professional Summary

Dynamic full-stack software engineer with over 4 years of experience in designing, developing, and maintaining web and mobile applications, as well as APIs. Expertise in end-to-end development, from initial design to deployment and ongoing maintenance, with a focus on creating scalable, efficient, and user-friendly solutions. Strong background in Agile methodologies and modern cloud platforms, including AWS, Azure, and Firebase. A motivated leader with a customer-centric approach and a passion for delivering exceptional results.

EDUCATION

University of Evansville

Bachelor of Computer Science | Minor in Mathematics | GPA:3.45

Evansville, IN

December 2021

WORK EXPERIENCE

Freelance/Self-employed

Remote

Software Engineer

01/2021 - present

- Successfully completed and delivered 11 web/mobile app projects mostly related to e-commerce using multiple tech stacks including C#/.NET, MVC and MEAN.
- Demonstrated working knowledge in modern front end technologies (React, Angular), as well as cloud computing platforms (Azure, AWS).
- Ensured satisfaction by iteratively collaborating with clients to understand dynamic requirements and deliver tailored solutions.
- Provided clean, organized code adhering to SDLC principles and OOP design patterns and best practices, as well as provided documentation for easy maintenance and future updates.

GE Appliances, A Haier Company

Louisville, KY

Software Engineering Co-op

01/2019 - 08/2020

- Successfully translated 4 novel ideas from scratch into functional products/features to be introduced within the GE Appliances product line, and was awarded utility patents.
- Leveraged skills in C#/.NET, C/C++, Python and other tech stacks to create and deliver novel functional prototypes and demonstrate them periodically to C-Suite executives and product line managers.
- Collaborated with electrical and mechanical engineers within GE Appliances to acquire needed hardware and electronics knowledge to ensure complete prototype functionality.
- Gained AI and machine learning exposure by learning data collection and how to model and train data for predictions using supervised, unsupervised and ensemble learning algorithms.

LEADERSHIP EXPERIENCE

Metro By T-Mobile

Evansville, IN

District Manager

06-2017 - 08/2020

- Provided leadership and directed all operations within a franchise of six stores, ensuring compliance with corporate policies and procedures and attainment of company targets.
- Consistently surpassed corporate monthly sales objectives and KPI's for all six locations with an average of 135% increase in net profit and recognition as some of the top performing doors in the Mid-Atlantic/Great Lakes region.
- Provided coaching and mentoring to all levels of staff, including sales associates and store managers in effective selling and sales maximization, sales and CRM software usage (Oracle XStore, RTPOS, CSG) error handling, inventory control, merchandising techniques and customer service protocols.

TECHNICAL SKILLS

Coding Languages: C#, C/C++, Java, JavaScript, Python, Swift

Frontend Development: ASP.NET, Angular, React, Vue.js

Networks/CP: WebSockets, BLE GATT, TCP/IP

Authentication/Authorization: Tokens, JWT, OAuth

Software Practices: Agile, SDLC, TDD, OOP, CI/CD

AI/ML Algorithms: Random Forest, K-means

Mobile Development: iOS, Android, Xamarin X-platform

Backend Development: ASP.NET Core, Django, restful APIs

Database: SQL, NoSQL MongoDB, Entity Framework

Cloud Tech: Microsoft Azure, AWS, Google Firebase

Embedded Development: IoT, RPI, Arduino

AI Tools/Libraries: TensorFlow, Keras, OpenCV, PyTorch

LEADERSHIP AND SOFT SKILLS

Problem Solving: analytical/critical thinking, detail oriented

Effective Communication: active listening, clear articulation

Customer Service: conflict resolution, product knowledge

Team Building: collaboration, trust building, motivation

Time Management: delegating, prioritizing tasks, scheduling

Adaptability: flexibility, resilience, open-mindedness, innovation

Cultural Awareness: sensitivity, inclusiveness, empowerment

Strategic Planning: risk assessment, goal setting, execution

HIGHLIGHTED PROJECTS

Smart Tea Pot

- Developed a full-stack wearable smartwatch application on the Tizen.Net framework.
- Utilized watch sensors to measure real-time body vitals, providing tea recommendations to neutralize imbalances based on data previously collected.
- Implemented Low Energy Bluetooth communication to trigger the teapot based on the corresponding time and steeping temperature through Generic Attribute Profile services and requests.
- Applied skills: C#, Python, Tizen.Net, IoT and BLE (Bluetooth Low Energy) and GATT.

Metro By T-Mobile® Franchise Inventory Management System

- Combined both disciplines (software and sales) to develop a full-stack Xamarin Forms cross-platform mobile application to manage inventory in a Metro by T-Mobile® franchise and facilitate operations at warehouses and stores at a franchise level.
- Incorporated an ASP.Net core web REST API for communication with an SQL database hosted on Azure.
- Applied skills: C#, RESTful APIs, XML, JSON tokens, JWT, Xamarin Forms, ASP.Net Core, SQL management.

Smart Knife Station

- Designed and developed an AI-enabled device that listens to audio commands and identifies the most suitable cutlery item from a kitchen set based on data collected.
- Applied skills: Python, Microcontroller embedded development, SQL databases, hardware, electronics.

Radio Frequency Fall Detector

- Wrote code in C to program a radio frequency sensor to detect falls and localize moving targets.
- Wrote a python script that used Random Forest Algorithm to train a model based on collected data to assist in substantiating predictions and help navigate edge cases avoiding false positives.
- Implemented SMS alerts through Twilio to promptly notify registered caregivers upon fall detection.
- Applied skills: C/C++, Python, Random Forest algorithm, IoT, SMS integration, and hardware.

Color based Smart Toaster

- Developed a toaster using OpenCV and the K-means clustering machine learning algorithm to consistently toast bread to the desired shade of goldenness through collecting and processing a large set of image files.
- Implemented color processing algorithms for precise control.
- Applied skills: Python, OpenCV, K-means clustering algorithm, and embedded hardware systems.