Maysoon Ahmad

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My background is in Chemical engineering with a wide range of experiences . I always had an interest in coding and was curious about technology which led me to change careers. I love coding and creating new things from scratch. It’s so fascinating to know that every piece of code I’m writing has a potential to solve a problem. I completed a Software development bootcamp where I learned C# and how to create a web app using ASP.NET Core MVC and I improved my coding skills.

**EDUCATION**

* Full Stack Software Development, Kal Academy.
* Master in Chemical Engineering, University of Waterloo (Thesis “Assessment of mathematical models for Ultrafiltration using MATLAB”).
* B.Sc. in Chemical Engineering, the University of Jordan.
* Teaching assistance Certification, Waterloo University.
* Python (Complete Python Bootcamp) – Udemy.com, Ruby, HTML, and CSS.

**TECHNICAL & PERSONAL SKILL**

• Proficiency with algorithms and data structures.   
• Knowledgeable and experienced in software development using various programming, structured languages, frameworks

and tools - C#, .Net Core Framework, Entity Framework, SQL, Docker, Git, Redis, RabbitMQ, MS SQL Server.  
• Experienced developing, building, and deploying micro services using Docker.   
• Experienced in successfully working on multiple concurrent projects in a fast-paced, deadline-driven environment.   
• Quick learner, self-motivated, great team player with excellent problem solving, troubleshooting skills.   
• Willing to explore new technologies and software trends

* Python (Complete Python Bootcamp) – Udemy.com, Ruby, HTML, and CSS.

**Experience**

**[Software Development Student (Deep stack) Kal Academy Feb2020-current](https://www.linkedin.com/company/kalacademy/)**

***Project: Music Library App***   
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▪ Developed a music application on UWP platform where users can build their music collection, create play lists, search and

play music.  
▪ Implemented Add Music feature in the app where user can add music from local files to the application.   
  
Tools and Technologies Used: C#, Asp.net framework, XAML Designer, Visual Studio, VSTS and Git.  
Design Patterns: MVVM  
  
***Project: Eventbrite***  
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▪ Developed a web application that allows anyone to create, share, find and attend events across different places and streams. User can add events to their wish list and manage.  
▪ The application is backed by 4 micro services - Orders, Event Catalog, Cart, and Identity Token services. Each service provides set of RESTful APIs to perform CRUD operations specific to the functionality.  
▪ Developed a messaging channel using Rabbit MQ to update the user wish list status as already registered based on events from orders placed.  
▪ Developed an in-memory data store using Redis to store and manage user wish list. Wish list Object will be serialized/DE-serialized to/from JSON before saving/retrieving data into/from Redis.  
▪ All the five micro services, MS SQL server, Redis and Rabbit MQ services has been containerized using Docker to run on a single server.  
  
Technologies used: C#, JSON, .Net Core Framework, Entity Framework, Rabbit MQ, Redis, SQL, Docker, Swagger, MVC Framework, Postman, JSON  
Design Patterns: Micro Services Architecture, MVC, Domain Driven Design.

***Expense Tracking app***

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**Assistant teacher at Lake Washington School district, February 2019-current**

* Assist in developing lesson plans based on state requirements and the specific needs of each child.
* Work with children in the classroom to promote their learning and development
* Communicate with parents and keep them informed about their child’s development and any changes to the regular day-to-day schedule

**Waterloo University, Canada ON**

**Master and Ph.D. (drop out)**

**2009 - 2014**

**Responsibilities**

* Air quality forecasting project: an integrated Analysis of the air pollution forcing using Calpuff and python: The project target was to analysis a raw data for air pollutants (the mixture of gases) from different factories in Ontario area. We used python to parse and filter the requirement data in order to use it as an input for Calpuff(dispersion model). Calpuff support AI to predict air pollution. The module can be used as a future project to simulate environment hazard prediction. AI and ML (machine learning) can be used as tools to monitor and reserve air quality .AI and ML will help human to predict pollution and track pollution sources.
* Assessment of mathematical models for Ultrafiltration of multi-solute continuous cross-flow process using MATLAB.
* Simulate the treatment of Industrial Phenolic Liquid Effluents using MATLAB.
* Odour assessment project: Applying Calpuff(dispersion model)to quantify the odour potential impact in the environment of a proposed facility in the Carp, Ontario. Where CALPUFF used to simulate the dispersion and to get a predicted concentration.
* Teaching assistants

**PROFESSIONAL TRAINING & CERTIFICATION**

* Python
* C#
* Ruby
* HTML and CSS
* MATLAB
* Completed all safety training requirements by Waterloo University
* Calpuff
* Teaching assistance Certificate from Waterloo University

**Note: I am authorized to work in United States (Green Card Holder)**