

About me

An engineer with great enthusiasm towards data science and Artificial Intelligence. Some of my hobbies are working out, trading and investment. A deterministic outlook characterize my approach to tackling challenges.

Experience

Frontend Developer

Velz Travel

Aug 2023 - Ongoing

Remote

- Directed the frontend of a travel web app for a startup built with next.js, react.js and Typescript
- Developed UI components using Material UI following Figma design guidelines and business logic using nodejs
- Collaborated with developers using Jira whilst working on Java springboot backend with postgres and docker
- Delivered app through agile development whilst using JEST for unit testing, optimized using SSR and SEO friendly

Software Engineer (Placement Year)

Johnson Controls R&D department (JCI)

July 2022 - July 2023

London UK

- Administered legacy C/C++ projects whilst fixing bugs, adding new features, refactoring and migration
- Developed C# .NET apps and libraries used for IoT, fire detection simulations, R&D, and data analysis
- Participated in a tech challenge by designing analytics web dashboard with React JS for predictive maintenance
- Maintained python automation scripts used for pdf report generation
- Managed a team of 10 interns to create a full business pitch and ended up placing 2nd amongst 18 competitors

Software Developer Freelance

Paperound

Nov 2021 - Feb 2022

Leeds UK

- Developed signal processing applications in Matlab and Python Scipy using Fourier Transform
- Designed data visualization Jupyter Notebooks with Matplotlib, Seaborn, Numpy and Pandas using Python
- Programmed a minimal REST api with nodejs Express.js and MongoDB and used PostMan for endpoint testing
- Engineered C++ libraries with DevOps using Travis-CI, GoogleTest, Docker, Cmake, Doxygen and MkDoc

IT administrator

Mesopotamia Group

Jun 2020 - Mar 2021

Amman Jordan

- Collaborated with a team to build a local file server on Ubuntu 18.04 LTS built using Apache and Nextcloud
- Administered the system using Bash, PowerShell and Nmap with SSH tunneling and port forwarding
- Engineered a complex version using a raspberry pie, network interface card and attached storage.
- Implemented Linux networking and protocols using IP addressing and routing for cloud hosting

Education

BEng (Hons) in Electronics and Computer

University of Leeds (UoL)

Sept 2019 - June 2024

First-Class Honors

- Embedded systems, Microprocessors, FPGA, Circuit Analysis, Signal processing, Networking, Compiler design
- Cloud and Parallel computing, Secure and Distributed systems, Cybersecurity, Software Engineering, Research

Skills

Technical:

C

C++

Java

C#

HTML5

CSS

JavaScript

Dart

Python

Matlab

SQL

Bash

Linux

Docker

Azure

AWS

Firebase

Jira

Git

SQLite

MongoDB

.NET

WPF

React

Next.js

Tailwind CSS

Material UI

Qt

Flutter

Django

Express.js

NumPy

Matplotlib

SciPy

TensorFlow

Pandas

Scikit-learn

CMake

Node.js

Arm Mbed

Arm Keil

Arduino

AutoCAD

Soft:

Management

Leadership

Motivated

Deterministic

Communication









Problem solver

Languages: Arabic (Full Professional)





English (Full Professional)

Spanish (Elementary)

Projects

JPS	 Oct 2022 - Jul 2023	 JCI
<ul style="list-style-type: none">• Re-designed a legacy CLI project to a GUI with C# .NET WPF using MVVM and multithreaded design• Invented an object-oriented scripting language with a custom compiler and runtime memory access.• Integrated SQLite database, Excel I/O features, data analysis tools and serial communication protocols• Communicated with engineers to develop and manage a product life cycle on the app's design and features		
Jobhive	 Sept 2023 - Ongoing	 Personal
<ul style="list-style-type: none">• Developed a fullstack web app with Nextjs, Reactjs, Chakra-ui and Typescript managing frontend and backend.• Engineered a monolithic backend REST API routing and endpoints with CRUD Operations using nextjs• Collaborated with a team using Jira issues and git to sustain clean, maintainable and efficient code• Developed project management skills from designing the app in figma to implementing it		
NotePad	 Nov 2021 - Ongoing	 Personal
<ul style="list-style-type: none">• Programmed a cross-platform note app with Flutter and Dart• Established backend using cloud authentication services with Firebase and storage with SQL CRUD• Using the BLoC pattern for state management and the Provider package for dependency injection• Used KerasRL library for reinforcement learning with human feedback to predict user's next note		
Home Automation Embedded System	 Jan 2021 - May 2021	 UoL
<ul style="list-style-type: none">• Engineered circuits for I/O functionality using data sensors, potentiometers, buttons and resistors.• Programmed control system using C++ for home appliances such as temperature, air conditioning and lighting• Developed menu oriented user interface using LCD display and joystick deployed on STM32 board ARM MCU		

Professional Courses

Data Analysis with Python	 Oct 2021
<ul style="list-style-type: none">• Develop Python code for cleaning and preparing data for analysis• Perform exploratory data analysis and analytical techniques to datasets using Pandas, Numpy and Scipy• Manipulate data using dataframes, understand data distribution, perform correlation and create data pipelines• Build and evaluate regression models using machine learning scikit-learn for prediction and decision making	
Databases and SQL for Data Science with Python	 Sept 2021
<ul style="list-style-type: none">• Analyze data within a relational database on the cloud using IBM DB2, SQL, Python• Construct SQL CRUD operations and compose views, transactions, stored procedures and joins.	
Python for Data Science, AI & Development	 Aug 2021
<ul style="list-style-type: none">• Demonstrate proficiency in using Python libraries such as Pandas, Numpy, and Beautiful Soup• Access web data using APIs and web scraping from Python in Jupyter Notebooks.	
Data Science Methodology	 Aug 2021
<ul style="list-style-type: none">• Apply the six stages in the Cross-Industry Process for Data Mining (CRISP-DM) to analyze a case study.• Evaluate which analytic model is appropriate among predictive, descriptive, and classification models used.	

Extracurricular

Event Coordinator Volunteer IEE RAS ICRA	 Nov 2021 - Feb 2022  London, UK
Web Developer hackathon Royal Hackaway v6	 Nov 2021 - Feb 2022  London, UK
Game Developer hackathon Pygames hackathon Microsoft	 Nov 2021 - Feb 2022  Remote
AI Agent hackathon Lablab	 Nov 2021 - Feb 2022  Remote