

Tarek Hassoun

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I am a modern man looking to utilize modern tools. I am an enthusiastic, hard-working, and creative person who makes the most of every line of code written. What I lack in experience I make up in ingeniousness, so that every minute is equivalent to an hour of progress. In my free time, I enjoy reading non-fiction, coding, and playing chess. I am looking for a job in AI, Cybersecurity, and Data Science that would help me use my creative strengths and form part of the data revolution.

WORK EXPERIENCE

Virtual (Personal Start-up)

April 2023 – Present

Software Engineer

Hybrid, Lebanon

- Developed and maintained the backend infrastructure using NestJS, an efficient and scalable Node.js framework.
- Leveraged Docker to containerize and deploy our applications, ensuring consistent and reliable deployments across different environments.
- Utilized AWS services, including but not limited to AWS Lambda, API Gateway, and S3, to build a scalable and robust cloud-based infrastructure.
- Implemented authentication and authorization systems to secure user data and manage access control for different user roles.
- Designed and developed APIs to enable seamless communication between the frontend and backend components of our virtual tour platform.
- Collaborated with the frontend team to integrate Babylon.js, a powerful WebGL framework, to create immersive and interactive virtual tours.
- Actively participated in code reviews, debugging, and troubleshooting to ensure high-quality code and efficient performance.

Murex External Partner

May 2022 – Sep. 2022

Technical Consulting, Environment Management

Hybrid, Lebanon

- Assisted in different tasks on and off-site training and guidance of users on the MX application.
- Created highly instructive and detailed user guides for new users.
- Performed with high rigor different tasks related to risk management software essentials for the bank in Murex, including EOD, data masking, and environment transfer. All tasks were performed in the remote desktop application MobaXterm. My hard work, fast response time, and dedication helped in decreasing the toll for team members, setting me as a reliable figure in the troubleshooting process. Troubleshooting and development were mostly in Java, Bash, Python, and SQL.
- Liaised with DB, ETL, Linux, and Networking teams always to ensure smooth orchestration of the development process.
- Collaborated with a cross-continental team of people in the development of new software patches and products from testing to Go live.
- Performed QA tests for patch deployment of new products and services.

Lebanese American University

Jan. 2022 – Present

Research Assistant

Beirut, Lebanon

- Worked closely with university instructors in the writing and investigation of different topics in IoT and Artificial Intelligence. My main contribution was in the creation of a survey on the use of UAVs for communication.

UCC

Dec. 2023 – Feb. 2023

Part-time Instructor

Remote, Lebanon

- Taught children the fundamentals of programming using Python, using a variety of tools and teaching styles that were adaptive to their own learning styles.
- Created curriculums and prepared homeworks that helped quickly assess and successfully aided in improving the child's programming abilities.

Safadi Foundation

Jun. 2021 – Sep. 2021

Web Development and Data Manipulation, Internship

Tripoli, Lebanon

- Helped in the manipulation of the data collected by the Data Management team using tools like Excel Power Query, SQL, and VBA, highly increasing productivity in the team.

- Maintained and modified the PHP and MS SQL back-end of the Data Management System through the version control system GitHub. All my pushes were to my supervisor's liking.
- Followed up with my supervisor with great efficiency, timeliness and responsibility using Trello for project management.

EDUCATION

Lebanese American University, Lebanon

Graduation Date: Spring 2023

Bachelor of Science (BS.) with Honors, Computer Science

- Renowned ABET-Accredited Institution.

ZAKA, Lebanon

16-Week Intensive AI Certification

- Project based online program where I learned about the most relevant Algorithms in ML, data cleaning and processing, and data presentation to stakeholders in collaboration with a cross-continental team of students all over the Middle East.

Coursera and NVIDIA Certifications

Miscellaneous

- Certifications from Coursera and Nvidia on a variety of topics, including NVIDIA certifications on Parallel Programming and Deep Learning.

PROJECTS

E-Commerce Website Development

- **Summary:** Developed a full-fledged e-commerce website using C#, ASP.NET, and JavaScript, providing an intuitive user experience and robust functionality.
- **Description:**
 - Led a team of developers to build an e-commerce platform from scratch, implementing features such as product catalog, shopping cart, user authentication, and order management.
 - Designed and developed the frontend using JavaScript, HTML, and CSS, ensuring a responsive and visually appealing user interface.
 - Implemented server-side logic using C# and ASP.NET, integrating with a SQL database for efficient data storage and retrieval.
 - Leveraged RESTful APIs to integrate with payment gateways and shipping providers for seamless transaction processing and order fulfillment.
- **Technologies used:** C#, ASP.NET, JavaScript, HTML, CSS, SQL, RESTful APIs

Natural Language Processing Chatbot

- **Summary:** Developed a chatbot using natural language processing (NLP) techniques, providing automated responses and intelligent conversation capabilities.
- **Description:**
 - Created a chatbot application using C#, ASP.NET, and JavaScript, leveraging NLP libraries such as NLTK and HuggingFace transformers API.
 - Implemented a user interface for interacting with the chatbot, allowing users to ask questions and receive relevant responses in real-time.
 - Utilized NLP models and algorithms to analyze and understand user input, providing intelligent and context-aware responses.
- **Technologies used:** C#, ASP.NET, JavaScript, NLTK, HuggingFace transformers API

SKILLS

- **Programming languages:** Java, Python, Javascript, Typescript, C#
- **ML/AI:** Sci-Kit, Tensorflow, Pytorch, NumPy, Pandas, Matplotlib, Dash, Seaborn
- **Web Technologies:** Express.js, Node.js, .net Blazor, Django, Angular, Spring Boot
- **Miscellaneous:** PostgreSQL, MySQL, MS SQL, Oracle, SQLite Git, CMD (PS and Bash), RegEX, Microsoft Office Suit, PowerBI
- **Communication:** Fluent in English, Spanish, and Arabic