

NOURA HOUMANI

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Summary

A dedicated Computer Science student at the University of Saint Joseph, I have a strong foundation in software development, networking, and database management. In addition to my academic pursuits, I am the founder of CodexAcademy, an educational initiative dedicated to offering comprehensive courses in all areas of computer science. Leveraging my early-started tutoring experience, I actively contribute to teaching at CodexAcademy, crafting curricula and instructing students to enhance their technical skills and understanding. My passion for educating others and sharing knowledge complements my technical proficiency, making me a versatile candidate in the tech industry.

Education

University Of Saint Joseph (USJ), Lebanon
Bachelor of Computer Science (3rd year)

February 2021 – Present

Lycee Kfarshima, Lebanon
Baccalaureate in Life Science

September 2020 – May 2022

Professional Experience:

Owner & Instructor, Codex Academy
October 2023 – Present

- Founded and managed Codex Academy, providing comprehensive computer science , engineering ,physics and mathematics courses.
- Instructed university students both one-on-one and in groups, employing effective teaching methods.
- Provided best practices for exam preparation and understanding complex concepts.

Internship At Mg Holding- IT department:

Computer science intern

- Network Cisco Infrastructure MG Holding:
 - Participated in training sessions encompassing daily network operations overview and CCNA concepts, including switching, routing, and wireless technologies.
 - Gained hands-on experience with routers and switches not integrated into the live network.
 - Engaged directly with the existing network infrastructure, involving prominent Cisco devices:
 - Cisco Core switch C3850.
 - Cisco switch 2960.

- Cisco router 1921.
- Firewall Cisco ASA 5512.
- Software validation and troubleshooting.
- Odoo backend exploration.
- Error identification and resolution.
- Problem solving and solution implementation.
- Enhancement of troubleshooting skills.
- Cross-functional Communication.

Internship At CCSS – (December 2023- April 2024):

Software development intern

- Proficient in SQL, ASP.NET, Visual Basic, C#, Windows Forms, and database management.
- Demonstrated expertise in developing robust and scalable applications using ASP.NET, Visual Basic, and C#.
- Possess advanced skills in database design, optimization, and management, with a focus on ensuring data integrity and security.
- Successfully implemented Windows Forms applications, showcasing a strong understanding of user interface design and functionality.
- Applied SQL knowledge to efficiently manage and query databases, contributing to streamlined data retrieval and manipulation processes.
- Played a key role in software development and troubleshooting, showcasing a comprehensive understanding of the software development life cycle.
- Adept at integrating various technologies to deliver innovative and effective solutions in the IT landscape.

Personal Experience:

Tutor for School Students

- Provided private tutoring and class sessions for students from grade 5 to grade 12.
- Specialized in Mathematics, Physics, and Biology, helping students to significantly improve their academic performance.
- Developed customized lesson plans tailored to each student's learning style and needs.

Projects:

Music application using SQL DATABASE:

An application that allows music search by genre, lyrics, Artist or date of release of the Album or the song:

- Searching through the data base using queries, to find informations about specific songs or albums.
- HTML/CSS programming to display a website.

Digitizing The Lebanese Judiciary Sector:

Facilitate lawyer's and other's personnel's work in standard procedures and enabling remote applications
For simple tasks (like appointing a lawyer and applying for a release request)

- Designing front end webpage using CSS ,HTML, JavaScript.
- Implementing the backend using SQL.

As-Salam School Website (Frontend Development):

- Created the frontend of “as-salam” school website using HTML, CSS, and JavaScript.
- Developed interactive web pages showcasing school information, academics, faculty, and admission procedures.

AI projects: Developed and Created AI Algorithms for basic games; Pacman and TicTacToe.

WebApp: Created a web-based tool for professors to monitor student attendance.

Projectile Motion Simulation :

- Developed a simulation model for projectile motion incorporating air resistance using Euler and Runge-Kutta (RK4) methods.
- Compared the accuracy, stability, and computational efficiency of both methods.
- Created visual representations of projectile trajectories.
- Analyzed the impact of air resistance on projectile motion and performance.
- Explored parameter sensitivity to initial conditions and model parameters.

C# projects:

1.Web Application Development:

•Created a Twitter-inspired homepage and a Shop Page with categories using Windows Forms projects, enhancing the user interface and user experience.

2.Gym Management System :

•Developed a comprehensive gym management system enabling efficient user account creation with unique identifiers, position tracking, and salary management functionalities.

3.Educational Game Applications :

•Designed and implemented interactive educational games including a Calculator, Number Guessing Game, Rock-Paper-Scissors, Crossing Tables, Decrypting Messages, Game drawing a Christmas tree with dynamic color changes, Sudoku game, Hangman game, and a Movie manager.

CERTIFICATES

Cisco: Networking Academy, CCNA : Introduction to Networks	February 2022
LinkedIn Learning: Introduction to Web Design and Development.	June 2022
LinkedIn Learning: HTML Essential training	June 2022
LinkedIn Learning: CSS Essential training.	June 2022
LinkedIn Learning: JavaScript Essential training.	July 2022

SUMMARY SKILLS

Languages: Arabic, English, French, Spanish.

Technical skills:

- Programming Languages: C#,C++,Python,JavaScript,C.
- Database Management: SQL, PostgreSQL, Advanced Databases, Relational Databases.
- Tools: Git, Windows& Unix operating systems, Visual Studio, CCNA
- Software Development: Software engineering, Design Patterns, Game development
- Web Development: HTML, CSS, JavaScript, ASP.NET, .NET Framework.
- AI & Machine Learning: Basics of AI, Data Structures and Algorithms, AI algorithms, neural networks.

Soft Skills: Communication Skills – Active Listening- Problem Solving- Teamwork and Collaboration-Conflict Management-Leadership-Creative Thinking-Adaptability-Multitasking and Time management-Continuous learning-Analytical Skills-Detail Oriented.

Area of interest: Cyber Security, Cloud Computing and Cloud Security , Programming, Web Development, Data Science and Analytics, Software Development, Artificial Intelligence and Machine Learning, Mobile App Development, Business analytics.

