Mohammad Hijazi

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EDUCATION

Lebanese American University, Beirut
Bachelor of Science in Computer Science   September 2022 – May 2025
USAID Scholarship Award Recipient

Experience

IBC Solutions, Beirut   July 2024 – August 2024
Data Science Intern

- Performed data cleaning, preprocessing, and validation of customer transaction records using SQL and Java to ensure data integrity, accuracy, and consistency
- Developed a report generation system using Java and SQL, enabling the dynamic creation of reports from processed data and utilizing the iText library for structured template design
- Collaborated with the team on debugging, testing system functionality, and optimizing data workflows for improved performance
- Converted raw customer data into actionable insights through data visualization, using Matplotlib and JFreeChart

AIESEC, Beirut
Business Development & Outreach Coordinator - "Youth Speak" program   February 2023 – January 2024

- Led the development of AIESEC's Talent Acquisition Program, including program structuring, partnership outreach, and market research
- Developed business proposals, securing a partnership with a local tech startup
- Collaborated with the team on organizing events focused on youth leadership, coordinating logistics and contacting speakers
- Managed client relationships by coordinating regular updates and addressing feedback

Projects

- Built a full-stack AI interview prep platform (Next.js, TypeScript, Vapi.ai, OpenAI, Firebase) with voice interaction, custom interviews and template sharing [demo](#)
- Developed a full-stack web application for virtual study sessions (MERN, Socket.IO, WebRTC, Python, PyTorch, scikit-learn), featuring research-based neural collaborative filtering recommendation system and real-time communication via chat and video call
- Built a secure backend for a blog application (Java, Spring Boot, Spring Security, Docker) with JWT authentication, developing RESTful APIs for content management with full CRUD functionality
- Developed a full-stack movie website (React, Firebase, TMDB API) with authentication, dynamic movie browsing, and video playback [demo](#) [certificate](#)
- Configured AWS VPC peering across regions to enable secure communication between EC2 and RDS
- Developed an enhanced chatbot system (Python, PyTorch, GPT-2, GPT-4o, LlamaIndex) with prompt refinement using fine-tuned GPT-2 model and retrieval-augmented generation (RAG)
- Optimized a sentiment analysis model (Python, NLTK, scikit-learn, NumPy, Pandas) by conducting a comparative analysis of different ML models and enhancing preprocessing techniques to handle negation patterns, improving model accuracy and linguistic understanding
- Implemented a full-stack data management web application for a school (HTML, CSS, JavaScript, PHP) with services such as authentication/authorization, scheduling, attendance tracking and class reservation tools with component testing and documentation of the software engineering cycle

Skills

- **Programming Languages:** Python, Java, C
- **Web Development:** HTML, CSS, JavaScript, PHP, React.js, Express.js, Node.js, Spring Boot, Spring Security
- **Databases:** PostgreSQL, Oracle, MySQL, MongoDB, Firebase, SQL
- **Data & AI:** Natural Language Processing, Machine Learning, Deep Learning
- **Other:** Git, Docker, Linux, Maven

COMMUNITY ENGAGEMENT ACTIVITIES

- [Participated in the "SouthernLebanonEmergencyReliefPlan2024" at foodblessed](#)   October 2024
- Assisted in launching the Ecohub initiative at Ahla Fawda   June 2023