

# Chris Azar

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## EDUCATION

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- Bachelor's Degree in Computer Science (Expected Graduation July 2025)
- Middle East University
- BASS SABTIYEH 6 – 2021

## SKILLS

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Python | JavaScript | Java | VB.NET | C++ | Jupyter Notebook | HTML | CSS | WAMP | .NET | SQL | Git | Git Bash | GitHub | Data Visualization.

*Languages: English, French, Arabic.*

## WORK EXPERIENCE

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### XpertBot (Remote)

Lebanon

*Data science*

*October 2024 – Present*

- **Data Analysis:** Executed detailed data cleaning and preprocessing using Python with Pandas and NumPy, incorporating methods like anomaly detection and normalization to prepare high-quality datasets for accurate analysis and modeling.
  - **Machine Learning:** Implemented unsupervised clustering algorithms (e.g., K-means) with scikit-learn to identify latent patterns in data, contributing to insights that informed strategic decisions and enhanced model accuracy.
  - **Data Visualization:** Developed interactive dashboards using tools like Tableau to visualize key metrics and performance indicators, enabling stakeholders to make data-driven decisions.
  - **Reporting and Collaboration:** Collaborated with cross-functional teams to gather requirements and present analysis findings, translating complex data insights into actionable recommendations.
  - **Documentation:** Created comprehensive documentation and playbooks outlining data analysis methodologies and best practices, promoting consistency and efficiency within the team.
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### Crystal Code (Hybrid)

Lebanon

*Software developer intern*

*Jun 2024 - Sep 2024*

- **POS Development:** Engineered scalable Point of Sale (POS) systems utilizing VB.NET within the .NET Framework, implementing design patterns for maintainability and enhancing user interfaces through XAML to improve operational efficiency in retail environments.
  - **Security Protocols:** Integrated secure database connections and implemented measures to protect sensitive transaction and customer data. Ensured seamless, secure communication between application layers and databases, reinforcing data integrity and privacy throughout the system.
  - **Database Optimization:** Developed and optimized **complex SQL queries** for both **SQL Server and MySQL** relational databases, using **indexing, normalization techniques**, and **stored procedures** to significantly improve data retrieval times and support efficient data management. Ensured the database structure was flexible and scalable to adapt to evolving client requirements.
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## Projects

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- POS System Framework Development:

Created a customizable **framework for a Point of Sale (POS) system** designed to streamline the connection between the **SQL database** and **Visual Studio**. Leveraged **DevExpress** for UI components to ensure an intuitive and responsive interface, enhancing user experience.

**Technical Stack:** Utilized **VB.NET within the .NET Framework** for application logic, **MySQL** for data storage, and **WAMP Server** to host and manage the SQL database. Integrated the **database with Visual Studio** to enable real-time data access and interaction, optimizing data handling efficiency for retail environments.

**Core Achievements:** Improved data connectivity and streamlined database operations, resulting in a highly efficient POS system framework. This structure allows for rapid customization and deployment across various retail applications, supporting scalability and efficient database management.