

HUSSEIN BACHIR

JUNIOR DEVELOPER

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SUMMARY

Master's Computer Science student with hands-on experience in AI/ML development, full-stack engineering, and enterprise software. Proven track record of building production-ready applications – from AI-powered systems (Transformer from scratch, CNN face recognition, hybrid recommenders) to scalable web platforms (e-commerce, POS systems). Proficient in TensorFlow, PyTorch, C#, .NET, and cloud deployment (Azure, AWS). Passionate about Generative AI, LLMs, and clean architecture.

EDUCATION

Bachelor in Computer Science
Beirut Arab University 2022 – 2025
Masters in Computer Science
Lebanese University 2025

SKILLS

- Languages: Python, C#, Java, JavaScript
- Backend: ASP.NET Core MVC (.NET 9), Django, Flask, Entity Framework Core
- Frontend: REST APIs, Razor Pages, Bootstrap 5, jQuery
- Databases: MongoDB, SQL Server, MySQL, PostgreSQL
- Cloud & DevOps: Azure App Services, Azure SQL, Docker Basics, CI/CD
- AI/ML: TensorFlow, PyTorch, Scikit-learn, Hugging Face, OpenCV
- Tools: Git, GitHub, VS Code, Visual Studio, Jupyter
- Core Concepts: OOP, Data Structures, Algorithms, Design Patterns, DDD, CQRS

CERTIFICATIONS

- ASP.NET Core MVC (.NET 9) (Udemy, 2025)
- Generative AI with AWS (Udacity, 2025)
- Python certification (Udemy)
- Recommendation system (Udemy)
- Competitive Programming Honor (LCPC, 2024)

PROFESSIONAL EXPERIENCE

ITB (ITG Holding) | Beirut, Lebanon

Intern – QA & .NET Developer | June 2025 – August 2025

- Engineered and maintained features for POS (Point of Sale) systems using C# and .NET Framework.
- Applied Domain-Driven Design (DDD) and CQRS (Command Query Responsibility Segregation) to build maintainable, scalable business logic.
- Wrote unit and integration tests to ensure software reliability and data consistency.
- Gained exposure to enterprise-grade data systems and AI-ready architectures through collaboration with cross-functional teams.

PROJECTS

Transformer (GPT-Style) from Scratch | Master's Project

- Implemented a decoder-only GPT-like Transformer in PyTorch, building each component from scratch – multi-head self-attention, feed-forward networks, residual connections, and layer normalization.
- Built a character-level tokenizer and data loader; trained the model on Shakespeare data to generate text.
- Gained deep understanding of the “Attention Is All You Need” architecture without using pre-built transformer modules.

CNN-Based Face Recognition System | Master's Project

- Designed and trained a deep CNN using TensorFlow and OpenCV for real-time face identification.
- Handled dataset preprocessing, augmentation, and model evaluation (accuracy, F1).
- Optimized inference for both CPU and GPU deployment.

E-Commerce Platform (ASP.NET Core MVC - .NET 9) | Freelance Project

- Built and deployed a production-ready online store using ASP.NET Core MVC, Entity Framework Core, and SQL Server on Azure.
- Integrated ASP.NET Identity for role-based access, Repository Pattern, and Dependency Injection.

Senior Project (Meshwar)

- Developed hybrid recommender (matrix factorization + neural networks) and routing system (graph algorithms) with Django/PostgreSQL backend, containerized using Docker.