

Azriel Matthew O. Ortega

Milan, Italy | azrielortega17@gmail.com | github.com/azrielortega

EDUCATION

Università degli Studi di Milano-Bicocca

LM in Data Science

Sept 2025 – 2027 (expected)

Milan, Italy

De La Salle University

BS Computer Science, Specialization in Software Technology

December 2023

Manila, Philippines

- CGPA: 3.587/4.00, Cum Laude, 3rd Place at the 2021 HackerCup Hackathon

PROJECTS

LLM Smart Cache | *Python, OpenAI API, Sentence-Transformers*

github.com/azrielortega/llm-smart-cache

- Built a semantic caching layer for LLM applications that matches near duplicate prompts by embedding similarity (sentence-transformers + FAISS) instead of exact string lookup. On an 18 query paraphrase benchmark, reached a 44% cache hit rate at a 0.875 cosine similarity threshold, cutting LLM API calls by 44%. Tuned the threshold on 400 labeled Quora question pairs to reach 86% hit precision.

Airbnb Price Viewer and Predictor | *Python, Streamlit, Scikit-Learn, Pandas, NumPy* romeairbnbdata.streamlit.app

- An end to end market data pipeline that turns raw listing data into predictive pricing signals, combining geospatial analysis, exploratory data analysis, and regression based forecasting to model how location and amenities drive price. Deployed as an interactive dashboard for real time exploration.

WORK EXPERIENCE

Samsung Research and Development Institute Philippines

Software Engineer

April 2024 – August 2025

Taguig, Philippines

- Built Bash and Python scripts that automated deployment tasks, saving about 1 to 2 hours per release for a team of 10.
- Maintained and enhanced a large scale security platform, conducting analysis and debugging to identify and resolve system vulnerabilities.
- Traveled to India to support software commercialization and knowledge transfer, working with the local team to diagnose and resolve deployment issues on site.
- Passed the Advanced Level of the Samsung Software Competency Test.

Freelance

Full-stack Software Developer

December 2023 – February 2024

Philippines

- Built an ecommerce site with an admin dashboard for order monitoring using Next.js and MongoDB.

Willis Towers Watson

Full Stack .NET Developer Intern

July 2023 – December 2023

Taguig, Philippines

- Automated employee onboarding and offboarding with Microsoft Power Apps workflows, replacing a manual process for new hires and leavers.
- Maintained and improved an internal training hours web app (Azure, .NET) used by teams in the Philippines, Germany and Great Britain, fixing bugs and optimizing database and page load performance.

Digiteer

Software Developer Intern

January 2022 – April 2022

Makati, Philippines

- Worked in a team of 2 to build a test mail server with React and Postman, and performed functional, integration and regression testing

TECHNICAL SKILLS

Technical: Python, C#.NET, SQL, Bash, JavaScript, Next.js, React, Node.js, OpenAI API, Sentence-Transformers, embeddings, scikit-learn, tensorflow, Pandas, NumPy, Regression Modeling, EDA, MongoDB, Azure, Git, GitHub Action, Postman, API testing, Power Apps

Languages: English (C1), Italian (A1), Tagalog (Fluent)

INTERESTS

Generative AI applications, LLM tooling, B2B software, Exploring local culture