

BOGHOS HAMALIAN

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EDUCATION

Haigazian University

Bachelor of Computer Science

Beirut, Lebanon

Sep 2021 - May 2025

- **Relevant Courses:** Computer Programming 1(Java), Advanced Computer Programming and Data Structures (Java), Logic Design Systems, Probability and Statistics for the Sciences, Data Science, Algorithms, Database Systems, Computer Architecture and Assembly, Android Mobile App Development, Operating Systems, Software Engineering, Data Transmission and Computer Networks, Game Development.

Melankton and Haig Arslanian Djemaran

French Baccalaureate

Beirut, Lebanon

2005 - July 2021

WORK EXPERIENCE

Xpertbot

Backend Development Internship

Beirut, Lebanon

Oct 2024 - Feb 2025

- Gained hands-on experience in **Laravel**, **PHP**, and **RESTful APIs** development.
- Managed version control with **Git**, **GitHub**, and handled dependencies using **Composer**.
- Utilized **Postman** for API testing, **JSON** for data exchange, and **XAMPP** for local server setup to enhance backend performance and scalability.

Jack Gifts Accessories

Shopify Website Manager

Beirut, Lebanon

May 2024 - Dec 2024

- Managed and maintained the Jack Gifts Accessories **Shopify** website, ensuring updates and smooth functionality.
- Utilized **Google Analytics** and **Meta Pixel** to improve website performance and boost social media engagement through data insights.
- Conducted **data entry** and analysis using **Excel** to maintain accurate records. Provided **technical support** for Shopify apps and resolved minor issues to improve the store's overall operations.

PROJECTS

AI Sentiment Analyzer Web App

Jun 2025 - Jun 2025

- Built a CRUD web app using **Flask**, **SQLite**, and **Hugging Face Transformers** to analyze user-submitted text with a **DistilBERT** sentiment analysis model.
- Used prompt engineering to design effective text inputs, and integrated **PyTorch**, python-dotenv, and **Hugging Face API** for model access and authentication.

Predictive Stock Trading Algorithm

Sep 2023 - Dec 2023

- Developed a **Python** trading algorithm using **Yahoo Finance's** real-time data. Utilized **Pandas** for data manipulation, **Scikit-learn** for machine learning, and **Matplotlib** for visualization to predict market movements and generate buy/sell signals for long-term investment strategies.

Portfolio Optimization Streamlit App

Jan 2025 - May 2025

- Built a portfolio optimization system using **Python's NumPy**, **pandas**, and **SciPy**, by applying Modern Portfolio Theory and SciPy's optimization algorithms to user-selected stocks, as measured by risk-adjusted allocation outputs based on user-defined investment amount and risk tolerance.
- Developed a full-stack financial dashboard using **Streamlit**, by integrating data cleaning, risk/return analysis, and efficient frontier visualization, as measured by real-time insights and interactive portfolio recommendations.
- Implemented backtesting and performance analytics, by processing 5+ years of historical data with yfinance, as measured by accurate comparisons between optimized and naive portfolios.

TECHNICAL SKILLS

- **Programming:** Java, Python (Pandas, Matplotlib, Scikit-learn, Numpy, Pytorch SciPy), MySQL, SQLite, Kotlin, C#, HTML/CSS, PHP, Laravel, JSON, Flask
- **Miscellaneous:** VSCode, Eclipse, Anaconda, Android Studio, Unity, MySQL, Shopify, Postman, Github, Git, WireShark, Xampp, Arduino, Hugging Face, DreamWeaver, Microsoft Office, TradingView
- **Soft Skills:** Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

LANGUAGES

- English, French, Arabic, Armenian