

BOGHOS HAMALIAN

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EDUCATION

Haigazian University

Bachelor of Science: Computer Science

Beirut, Lebanon

Graduated: May 2025

Melankton and Haig Arslanian Djemaran

French Baccalaureate

Beirut, Lebanon

Graduated: July 2021

PROJECTS

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.

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.
- Integrated **PyTorch** and **Hugging Face API** for model access and authentication.

Portfolio Optimization Streamlit App

Jan 2025 - May 2025

- Built a full-stack portfolio optimization system using **Python** (NumPy, pandas, SciPy) to apply Modern Portfolio Theory.
- Implemented data ingestion and transformation pipelines with **Yahoo Finance API** (yfinance) to clean and process 5+ years of historical stock data.
- Developed backtesting workflows and automated performance analytics, comparing optimized vs. baseline portfolios.
- Delivered a **Streamlit** dashboard for interactive analytics, real-time efficient frontier visualization, and investment recommendations.

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.

TECHNICAL SKILLS

- Programming:** Python (Pandas, Matplotlib, Scikit-learn, Numpy, Pytorch SciPy), JavaScript, Java 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