

# BOGHOS HAMALIAN

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## WORK EXPERIENCE

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### 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

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### Weather Probability Prediction App — NASA Space Apps Challenge 2025 ([GitHub](#))

Oct 2025

- Contributed to building a Streamlit web application that predicts weather event probabilities using Bayesian networks and NASA's MERRA-2 climate dataset.
- Implemented backend logic in **Python** for probabilistic computations and **SQLite** data handling.
- Collaborated with a 4-member team on integration of the **Google Gemini API** for AI-based output summarization, using Git/GitHub for version control.

### Real Estate App ([GitHub](#)) ([Demo](#))

Sep 2025 - In Progress

- Built a cross-platform real estate mobile app with **React Native**, **Expo**, and **TypeScript**, allowing users to browse, search, and view detailed property listings.
- Integrated Google authentication and an **Appwrite** backend with a cloud database for secure sign-in and real-time property data management.

### Portfolio Optimization Streamlit App (Capstone Project) ([GitHub](#))

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 **Yahoo Finance API**, as measured by accurate comparisons between optimized and naive portfolios.

## EDUCATION

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### Haigazian University

Bachelor of Science: Computer Science

Beirut, Lebanon  
**Graduated:** May 2025

### Melankton and Haig Arslanian Djemaran

French Baccalaureate

Beirut, Lebanon  
**Graduated:** July 2021

## TECHNICAL SKILLS

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- **Programming:** JavaScript, TypeScript, React JS, React Native, Expo, Python, Java, SQL, HTML5, CSS.
- **Tools:** GitHub, Git, MySQL, SQLite, MongoDB, Appwrite, Google Gemini API, CISCO Packet Tracer, Active Directory, Wireshark, Trello, Postman, Slack, Excel.
- **Soft Skills:** Time Management, Teamwork, Agile workflow, Problem-solving, Documentation.

## LANGUAGES

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- English, French, Arabic, Armenian