

FAHIM FRANCIS

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Summary

Graduated with a **BSc in Computer Science from The Hebrew University of Jerusalem**, with a strong foundation in **Python, C, C++, Java, databases**, machine learning, algorithms, data structures, and computer architecture. Serving as a calculus and mathematics tutor to students and young children in schools, showcasing both technical expertise and teaching ability.

Motivated software engineer seeking a full-time junior verification/backend/full stack/software engineer role. Known for problem-solving, teamwork, and quick learning, eager to contribute to dynamic, innovative environments.

Education

- **2021 – 2025: Bachelor of Science (BSc) in Computer Science, The Hebrew University of Jerusalem**

Relevant Courses

Introduction to CS -85, C/C++, Machine Learning -84, Software Engineering-95, Object-Oriented Programming (OOP)-80, Databases -93, Introduction to Artificial Intelligence -91, And Data Science -89, Computational Biology-90

- **February 2025- May 2025, SWITCH course, Appleseeds in partnership with Hasoub**
 - The intensive technological program focused on advanced development practices and software engineering principles.
 - Comprehensive curriculum covering **clean code, system design, data structures, and algorithms**.
 - Emphasis on practical implementation, such as **debug mastery, code reviews**, and industry-standard tools (**Git, AI-assisted workflows**).
- **2014-2017: Arab-Orthodox School, Haifa: Bagrut in Physics (5 units), Mathematics (5 units), English (5 units), Electronics (10 units). Average Bagrut score of ~115.5.**

Projects

- **Optimizing iRobot Performance - [Code](#)**
 - Designed a room-cleaning task for iRobot using **Minimax, Alpha-Beta pruning, and Q-Learning** to boost efficiency
 - Developed AI models in **Python**
 - Collaborated on environment design and **model evaluation**
 - Enhanced skills in **AI algorithms** and real-time strategy optimization
- **FIFA World Cup Outcome Prediction - [Code](#)**
 - Developed a **machine learning** model to predict match outcomes using historical data and team statistics
 - Utilized Python and libraries like **pandas** and **scikit-learn**
 - Collaborated with teammates to preprocess data and improve model accuracy
 - Enhanced skills in **data analysis** and predictive modeling.

Professional Skills

Proficient with: **Python, Java, SQL, and C, C++**

Also familiar with: **HTML, CSS, assembly**

IDEs: **PyCharm, Visual Studio, Jupyter Notebook, CLion, and IntelliJ IDEA**

Platforms & Tools: **Linux, Git, GitHub**

Languages

Arabic: Native | **Hebrew:** Full professional proficiency | **English:** Full professional proficiency