

Aaron Tawil

Second-Year CS & Physics Student

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Second-year B.Sc. student in **Computer Science** and Physics (Quantum Computing Program) at Tel Aviv University.

Motivated to join a **software engineering** team where I can apply and expand my technical skills, gain industry experience, and contribute to innovative projects. Strong analytical mindset with a foundation in problem-solving, math, and computational thinking.

Education

2023 – 2027 | B.Sc. in CS and Physics Tel Aviv University

GPA: 88 (CS), 90 (Physics)

Relevant Courses:

- Introduction to Computer Science (Python) – 93
- Data Structures – 96
- Software 1 (Java) – 96
- Algorithms – In Progress

Technical Skills:

Programming Languages: Python, Java, Kotlin, C.

Tools & Env: Git, SQL, Linux, Docker, GenAI tools (Gemini CLI, codex, MCPs etc).

Projects

Data Structures Projects (University)

- AVL Tree (Python): self-balancing BST with support for insertion, deletion, search, and advanced operations like split/join
- Fibonacci Heap (Java): developed a heap supporting efficient merges and key updates; applied to graph algorithms such as Dijkstra's.
- Repos: [AVLTree](#) | [Fibonacci Heap](#)

Android App for Inventory Management with Barcode Scanner (self-project - 2020)

- Developed an Android app in Kotlin to retrieve item details (price, quantity, etc.) via barcode scanning or manual search.
- Boosted employee productivity (~20% faster in receiving new goods).
- Integrated with Firebase for cloud sync and Room for local data storage.
- GitHub repo: <https://github.com/Aaron-Tawil/Barcode-Scanner>

Work Experience

2018 – 2021 | Purchasing and Inventory Store Manager | Super Home (Jerusalem)

- Managed purchasing and inventory using ERP systems: supplier orders, pricing, and stock tracking.
- Developed an Android inventory management app (see Projects).
- Supported creation and maintenance of an e-commerce platform (Shopify based).

Volunteer

English Tutor and Mentor

Hillel Organization | Tel Aviv

- Volunteered to teach and mentor young adults who have left the ultra-Orthodox community, focusing on English language skills.

Soft Skills: Self-driven learner with excellent adaptability, meticulous attention to detail, strong problem-solving capabilities, and highly motivated to achieve and excel.

Languages: Hebrew – Native | English – Full Professional Proficiency | Spanish – Native