

# Tatiana Nohra

US citizen

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## Summary

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Computer Science & Engineering student specializing in AI, with hands-on experience in embedded systems. US citizen with strong academic background (Presidential Merit Scholar) and international exposure at AUB and the University of Sydney. Passionate about developing systems that bridge hardware and software.

## Technical Skills

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**Programming & ML:** Python, C++, Java (OOP), JavaScript, Verilog, NumPy, pandas, scikit-learn, AI Agents

**Embedded Systems:** FPGA (Vivado), ESP32, Arduino, Raspberry Pi, Sensors, BLE, Linux/Unix

**Software Development:** Next.js, React Native, Node.js, Expo Go, Sanity CMS, PyQt, SQLite, Git/GitHub

**Prototyping:** Fusion 360, CAD, 3D Printing, Laser Cutting

## Work Experience

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### AI Integration Intern, *Student World, Sydney*

08/2025 – 10/2025

- Diagnosed CRM issues; collaborated with the CRM developer to trace data flow on Microsoft Azure and improve the StudyLink API pipeline.

### Web Developer, *Slimco Trading Company, Beirut*

10/2025 – Present

- Leading the migration from legacy infrastructure to a modern Next.js stack, implementing a headless CMS pipeline and serverless deployment on Vercel.

### Co-Founder, *Kaizen 3D solutions, Beirut*

11/2025 – Present

- Established a 3D printing startup supplying custom items to local art workshops and managing the full lifecycle from Fusion 360 design to delivery

## Projects

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### Sports Booking & Matchmaking Platform, *Independent Startup*

12/2025 – Present

- Developed a sports court booking platform using React Native, Node.js, and Expo Go, featuring a matchmaking algorithm for skill-based pairing; currently managing outreach to court owners across Lebanon ahead of the beta launch.

### Image Classification Model Analysis, *University of Sydney*

10/2025 – 11/2025

- Built and evaluated SVM (with PCA), MLP, and CNN classifiers on the CIFAR-10 dataset, implementing preprocessing pipelines to optimize performance.

### Jumanji Smart Interactive Board Game, *University of Sydney*

09/2025 – 10/2025

- AI-integrated board game with ESP32/Raspberry Pi, 24+ sensors, 4 servos, and a BLE die; used Gemini API for trivia/challenge generation.

### RC Aircraft Systems Development, *American University of Beirut*

03/2025 – 04/2025

- Built a 1.1 m wingspan RC aircraft with a brushless motor, gyroscope module, and 2 servos, using cardboard laser-cut parts; completed 2 iterations over 1 month.

### Online Shop Platform (PyQt5), *AUB Network and Communication Course Project*

10/2024 – 11/2024

- Multithreaded PyQt5 shop app with cart, messaging, product actions, and an SQLite database (5+ tables); built core UI modules as part of a 3-member team.

## **Education**

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<b>Bachelors in Computer Science and Engineering</b> , <i>American University of Beirut</i>	08/2023 – 05/2027
• Full Presidential Merit Scholarship	
• Coursework includes OOP, Data structures and Advanced Algorithms, Computer architecture, Software engineering, Databases, AI in industry	
<b>Exchange Semester</b> , <i>University of Sydney</i>	08/2025 – 12/2025
Advanced ML, Cybersecurity, Operating systems (Linux/Unix), Pervasive Computing	
<b>Collège Notre Dame de Nazareth</b>	09/2008 – 06/2023
Valedictorian, Class of 2023	

## **Leadership and Community Involvement**

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<b>AUB Running Club</b> , <i>Founder &amp; President</i>	03/2024 – Present
• Founded a 50+ member community, organizing weekly runs, and charity events	
<b>Charity Run Organizer</b> , <i>Personal initiative</i>	10/2024 – 11/2024
• Organized a 10 km charity run supporting war survivors and cancer patients.	
<b>Guides du Liban</b> , <i>Unit Leader</i>	09/2023 – 09/2025
• Mentored a group of 17–18-year-old girls in leadership development	
<b>Offre Joie</b> , <i>Volunteer</i>	08/2020 – 08/2020
• Contributed to post-Beirut Port explosion rebuilding efforts	

## **Languages**

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**English:** Fluent, **French:** Fluent, **Arabic:** Fluent, **Russian:** Fluent