

Tatiana Nohra

US citizen

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Summary

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

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

AI Integration Intern , <i>Student World, Sydney</i>	08/2025 – 10/2025
<ul style="list-style-type: none">Diagnosed CRM issues; collaborated with the CRM developer to trace data flow on Microsoft Azure and improve the StudyLink API pipeline.	
Web Developer , <i>Slimco Trading Company, Beirut</i>	10/2025 – Present
<ul style="list-style-type: none">Leading the migration from legacy infrastructure to a modern Next.js stack, implementing a headless CMS pipeline and serverless deployment on Vercel.	
Co-Founder , <i>Kaizen 3D solutions, Beirut</i>	11/2025 – Present
<ul style="list-style-type: none">Established a 3D printing startup supplying custom items to local art workshops and managing the full lifecycle from Fusion 360 design to delivery	

Projects

Sports Booking & Matchmaking Platform , <i>Independent Startup</i>	12/2025 – Present
<ul style="list-style-type: none">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 , <i>University of Sydney</i>	10/2025 – 11/2025
<ul style="list-style-type: none">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 , <i>University of Sydney</i>	09/2025 – 10/2025
<ul style="list-style-type: none">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 , <i>American University of Beirut</i>	03/2025 – 04/2025
<ul style="list-style-type: none">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) , <i>AUB Network and Communication Course Project</i>	10/2024 – 11/2024
<ul style="list-style-type: none">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

Bachelors in Computer Science and Engineering , <i>American University of Beirut</i> <ul style="list-style-type: none">• Full Presidential Merit Scholarship• Coursework includes OOP, Data structures and Advanced Algorithms, Computer architecture, Software engineering, Databases, AI in industry	08/2023 – 05/2027
Exchange Semester , <i>University of Sydney</i> Advanced ML, Cybersecurity, Operating systems (Linux/Unix), Pervasive Computing	08/2025 – 12/2025
Collège Notre Dame de Nazareth Valedictorian, Class of 2023	09/2008 – 06/2023

Leadership and Community Involvement

AUB Running Club , <i>Founder & President</i> <ul style="list-style-type: none">• Founded a 50+ member community, organizing weekly runs, and charity events	03/2024 – Present
Charity Run Organizer , <i>Personal initiative</i> <ul style="list-style-type: none">• Organized a 10 km charity run supporting war survivors and cancer patients.	10/2024 – 11/2024
Guides du Liban , <i>Unit Leader</i> <ul style="list-style-type: none">• Mentored a group of 17–18-year-old girls in leadership development	09/2023 – 09/2025
Offre Joie , <i>Volunteer</i> <ul style="list-style-type: none">• Contributed to post-Beirut Port explosion rebuilding efforts	08/2020 – 08/2020

Languages

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