

Stéphane Najjar

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EDUCATION

Lycée Nahr Ibrahim

French Baccalaureate

Graduated June 2023

American University of Beirut

Bachelor of Science in Computer Science and Mathematics, Minor in Physics

Aug 2023 – Present

- **Relevant Coursework:** Data Structures & Algorithms, Database Systems, Software Engineering, Operating Systems, Systems and Network Programming, Theory of Computation, Numerical Computing
- **Current GPA:** 3.46/4.0
- **Honors:** FAS Dean's Honor list - Spring 2024 – Present

EXPERIENCE

Bug testing and quality assurance at AIMS

July 2021

- Completed a 2 week internship focused on UI bug testing and quality assurance for AIMS' socrate platform
- Performed UI stress testing and functional validation as part of a quality assurance internship

xv6 Kernel Extension

June 2025 – May 2025

- Extended the xv6 operating system and implemented new kernel-level functionalities
- Designed and integrated new system calls
- Implemented user authentication with login functionality

Full-Stack web app

Aug 2025 - Nov 2025

- Developed a full-stack web app as part of a semester-long team project
- Designed and maintained a PostgreSQL database using Supabase for data storage and authentication
- Deployed the application using Vercel with CI/CD pipeline for automated builds and updates
- Developed backend services using FastAPI

Systems and Network Programming Project

March 2026 – May 2026

- Built a terminal based version of the Dots and Boxes game with full game state management and a scoring system
- Designed a bot that uses a heuristic move evaluation algorithm to make decisions
- Added online multiplayer functionality using TCP based client-server communication

Mathematics Research

June 2025–Present

- Investigated the existence of solutions to a system of functional differential equations modeling optical diffraction
- Currently writing a paper documenting the results in preparation for publication

SKILLS

Spoken Languages: English, French, Arabic, Basic Greek

Programming Languages : Java, C, C++, LaTeX, MatLab, GDScript, SQL

Systems: Linux, xv6, TCP/IP networking

Tools : Git, Jira, Postman, Make, Vercel, Supabase

Mathematical & Algorithmic Skills: proof-based reasoning, discrete mathematics, algorithm design, complexity analysis