Zein Zebib

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EDUCATION

American University of Beirut (AUB)   **Beirut, Lebanon**

Computer and Communications Engineering GPA (3.76/4)   *Graduation Date: May 2025*

SKILLS

Programming Languages	**:** Python, Java, JavaScript
Web Dev	**:** Flask, Next.js, Node.js, React, React Native, JSR286, OpenShift
Software Tools	**:** Microsoft Office, Figma, VSC, Jdeveloper
General Skills	**:** Public speaking, pitching, leadership, human-centered design, strategic thinking, and problem-solving.

WORK EXPERIENCE

European Organization for Nuclear Research (CERN)   **Geneva, Switzerland**

Software Development and Project Management   *Aug 2022 - Aug 2024*

- Designed a storage management application at the CMS Experiment using **Flask** and **ReactJS** that automates equipment registration process using **Selenium WebDriver** reducing registration time from 3-5 minutes per item to under a minute.
- Initiated the upgrade of the new visits management tool for CMS, focusing on stability and human-centered design, built with a **Java** backend, **ReactJS** frontend, and an **Oracle** database.
- Upgraded and maintained the Day-by-Day information and safety website at CMS from PHP to **NextJS**.
- Supported the High-Performance Computing for Lebanon (HPC4L) project by serving as a liaison between the team in Lebanon and CMS.
- Established the communications committee for HPC4L, developing a cohesive design language and media strategy. Designed the project logo, selected color schemes, and created content for social media using **Figma**.
- Assisted in organizing the inauguration of the HPC4L facility at the Grand Serail.
- Supported Martin Gastal, the CERN advisor for the MENA region, in his outreach and relations for in the MENA region, in one instance travelling to Jeddah and delivering a presentation at Effat University.
- Conducted 41 visits, guiding 580 visitors, including government officials, royalty, and academic leaders from the MENA region and beyond.
- Supervised two summer students in 2023 and three in 2024 working on an inspection robot in the CMS underground experimental cavern (UXC55). Provided guidance on software design and architecture, robot chassis design, code debugging, and project vision achieving two successful prototypes that were tested in the UXC55.

PROJECT EXPERIENCE

AUB   Beirut, Lebanon

Final Year Project (FYP)   *Aug 2024 - Present*

- Currently working on an FYP that aims to centralise information of a university using web scraping techniques and injecting this knowledge in an **LLM** using **vectorised databases** to generate automated media that is pushed to social media platforms to foster community engagement and provide real time updated advising to students.

University Innovation Fellows, Stanford d.school   **Beirut, Lebanon**

Fellow   *Sep 2021 - Present*

- Member of the University Innovation Fellows (UIF) community, a community dedicated to fostering proactive and innovative mindsets among students.
- Engaged in a focused 2-month program aimed at addressing the question: "How might our school better support students' social and emotional well-being?"

- Participated in ideation, prototyping, and stakeholder engagement throughout the program, honing skills in strategic thinking, problem-solving, and design thinking.
- Led the development of our AUBelong change story, collaborating with a team to articulate a vision for campus-wide change and presented the vision to the university management and faculty.
- Attended the UIF 2024 meetup in the Netherlands as an event organiser supporting and delivering workshops, guiding fellows, and giving a speech to inspire students.

AUB   **Beirut, Lebanon**
Undergraduate Design Fellow   *Jan 2022 - Jul 2022*
- Redesigned the IDPP workspace along with a multidisciplinary team based on insights from interviews and user observations.
- Served as a liaison between faculty members and the design team, fostering clear communication and alignment of objectives.
- Developed a data tracking system using **Arduino** technology to monitor and analyze pharmaceutical waste disposal in a bin and utilized **Python** scripts to translate collected data into graphical representations.

AUB   **Beirut, Lebanon**
Android Developer   *Oct 2021 - Apr 2022*
- Developed a text-to-speech app for the Phoenician Language in collaboration with a linguistic professor, enabling users to hear the pronunciation of Phoenician words and letters.
- Used **Android Studio** as an IDE and **Java** to design, and develop the app.

Foxfeed   **Beirut, Lebanon**
Co-Founder   *Jul 2020 - Jul 2021*
- Managed a team of 6 individuals, delegating tasks and setting goals, resulting in the acceptance to an accelerator program and winning two hackathons.
- Gained invaluable knowledge on entrepreneurship, market research techniques, competitor analysis strategies, and financial forecasting methods.
- Utilized **HTML**, **CSS**, and **JavaScript** to develop a website prototype for FoxFeed that showcased its mission to combat misinformation and promote critical thinking among youth.

AUB   **Beirut, Lebanon**
Research Assistant   *May 2020 - Aug 2021*
- Conducted comprehensive market research on the AI startup landscape in collaboration for BluStone Management
- Documented startups technologies and captured metrics including startups' revenue, funding, competitors, etc.
- Innovated by creating **Python** web scraping scripts to enhance research efficiency; reduced information collection time from 3 hours to less than 20 minutes for 80 startups.

INTERESTS

Interests: Cooking, Baking, Volleyball, History, Philosophy