

John Kofdarelli

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EDUCATION

American University of Beirut

BE in Computer Science & Engineering

Beirut, Lebanon

Graduation Date: Jun. 2028

- Recipient of the early merit scholarship
- Dean's Honors List member
- Organizations: ACM, Honor Society, IEEE, AUB Outlook, AUBMUN Conference

PROFESSIONAL EXPERIENCE

American University of Beirut

Beirut, Lebanon

Teaching Assistant, EECE 332 (Object-Oriented Programming in Java)

Aug. 2026 – Dec. 2026 (Incoming)

- Hand-picked by course professor from 100+ students to conduct office hours, grade assignments, and assist lab sessions covering inheritance, generics, multithreading, JDBC, and RESTful microservices with Spring Boot.

Software Engineer (Internship)

Jan. 2026 – May 2026

- Architected a real-time crisis communication platform integrating 6 external APIs and dual AI models (Perplexity + Gemini), automating multilingual alert detection, verification, and drafting across 5 languages, reducing response time from 30+ minutes to a few seconds.
- Built an image-metadata analysis pipeline to extract EXIF, XMP, IPTC, GPS, capture-time, device, and editing-software information.

Société d'oxygène et d'acétylène du Liban SOAL

Dekwaneh, Lebanon

I.T Department Intern

Jun. 2024 – Aug. 2024

- Explored network security fundamentals, including firewalls (stateful, next-gen, host-based, and web app).
- Identified a cross-site backup gap and proposed a bandwidth upgrade to enable nightly Veeam replication between branches, reducing maximum data loss exposure from 24 hours.

EXTRACURRICULARS & LEADERSHIP EXPERIENCE

AUBMUN Conference

Beirut, Lebanon

Lead Web Developer, mun.org.lb

Feb. 2026 – Present

- Received Special Recognition Award out of 200+ for "Achieving full-team-level impact through tireless dedication and state-of-art execution", in addition to the "Most Innovative" award.
- Automated delegate badge generation, providing print-ready A6 delegate badges for 1000+ delegates using database records, uploaded ID photos, and autogenerated QR identifiers, reducing hundreds of hours of repetitive manual layout work on Canva.
- Automated the generation of certificates for delegates, advisors, and cabinet members, saving hours of redundant design work.
- Further expanded the CMS to allow for management of committees, payments, petitions, training modules, announcements, inbox/email workflows, all of which were previously done on Google services, providing a centralized and private place for all organizers to manage the conference.

Technology Coordinator

Dec. 2025 – Feb. 2026

- Automated conference registration to be done completely on the website, saving hundreds of hours of work from processing thousands of Google Form responses.
- Built a custom CMS using Flask and SQLAlchemy so our organizers could manage registrations, attendance, and room reservations.
- Designed & implemented a public review section on our homepage, increasing the credibility of the conference.

AUB Outlook Newspaper

Beirut, Lebanon

I.T & Web Development Team Leader

Feb. 2026 – Present

- Added role-based access control using Django groups and permissions for Writer, Editor, Executive, and Editor-in-Chief responsibilities.
- Automated notifications and publishing flows, including email alerts for workflow events and conversion of approved submissions into live Wagtail blog pages.

I.T & Web Development Team Member

Dec. 2025 – Feb. 2026

- Developed the core Django/Wagtail web platform for student publication, structuring content with custom blog page models, author entities, tags, and media galleries enabling editors to create, organize, and publish articles through a structured admin interface.

Maroun Semaan Faculty of Engineering & Architecture (AUB)

Beirut, Lebanon

Research Volunteer

Jan. 2026 – Present

- Contributed to Hint3D (ICRA 2026), a framework for safe zero-shot test-time adaptation of 3D point cloud segmentation.
- Designed a human-in-the-loop test-time adaptation framework allowing deployed 3D perception models to improve from user corrections without retraining or access to source datasets.

SKILLS

Languages: C++ | Python | Java | Verilog | RISC-V Assembly

Web & Frameworks: HTML | CSS | JavaScript | React | Next.js | Node.js | Spring Boot | Flask | Django | Wagtail | REST APIs

Tools & Concepts: Git | PostgreSQL | SQLAlchemy | Microsoft Office | Data Structures & Algorithms | OOP

Spoken Languages: English | French | Arabic