

Christina Zahreddine

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PROFESSIONAL SUMMARY

Computer Science graduate (GPA 3.98/4.0, Beirut Arab University, 2026) with hands-on industry experience building AI-powered SaaS platforms, full-stack web applications, and cloud-integrated systems. Proven ability to deliver end-to-end solutions using Python FastAPI, React.js, PostgreSQL, OCR, and LLM pipelines — including a production-grade AI document processing platform developed in direct collaboration with an industry partner. Knowledgeable in Cloud Computing (AWS, Google Cloud), AI/ML, and Cybersecurity, with a track record of applying modern DevOps practices (Git, REST APIs, Agile/Scrum) across real-world projects. Seeking a Frontend or Full-Stack Web Development role where I can apply my skills in building modern, scalable, and user-focused web applications while continuing to grow as a software developer.

PROFESSIONAL EXPERIENCE

IDS —Integrated Digital System— Full-Stack Web Development Intern *Jun 2025 – Sep 2025*

- Co-developed a production web application within a 3-member Agile team, contributing to both frontend and backend layers across full sprint cycles.
- Engineered responsive frontend components using HTML5, CSS3, JavaScript (ES6+), and Bootstrap 5, improving UI consistency across 10+ pages.
- Built and integrated backend REST API endpoints connected to a MySQL database, supporting core application data flows and business logic.
- Maintained codebase quality and team collaboration using Git/GitHub with feature branching and peer code reviews.

CodeAlpha — Full-Stack Web Development Intern (Virtual) *Feb 2026 – Mar 2026*

- Architected and delivered 3 full-stack web projects end-to-end, integrating React.js frontends with Python FastAPI backends and PostgreSQL databases.
- Designed RESTful API contracts using Postman and implemented data persistence layers with relational schema design and query optimization.
- Applied component-based UI architecture in React.js, demonstrating proficiency in state management, hooks, and REST API consumption.

CodeAlpha — Frontend Development Intern (Virtual) *Feb 2026 – Mar 2026*

- Designed and delivered 3 functional frontend web applications using HTML5, CSS3, JavaScript, and React.js with a focus on responsive design and usability.
- Implemented modern React patterns — functional components, hooks, and props — to build modular, reusable UI component libraries.
- Managed project versioning and collaborative workflows via GitHub, maintaining clean commit histories and branch structures.

PROJECTS

AutoDoc.ai — AI-Powered Document Processing SaaS Platform

2025-2026

Industry Collaboration with IDS

- Architected an end-to-end AI document processing platform within a 4-member development team that automates structured data extraction from predefined document templates, eliminating manual data entry workflows.
- Designed a multi-stage processing pipeline: OCR-based text extraction → template field mapping → LLM-powered structured JSON generation → REST API delivery to downstream systems.
- Developed the PostgreSQL database architecture, including schema design and data models supporting document management, template configuration, and extraction workflows.
- Built a Python FastAPI backend with RESTful endpoints integrated with PostgreSQL and Google Cloud infrastructure for scalable, cloud-hosted document storage.
- Built and implemented 5 React.js frontend interfaces for document upload, template management, extraction review, user administration, and system monitoring, while implementing Role-Based Access Control (RBAC) to enforce secure access and permissions across different user roles.
- Leveraged LLM prompting for intelligent field extraction from unstructured and semi-structured document formats.
- Tech Stack: Python · FastAPI · React.js · PostgreSQL · OCR · LLM · Google Cloud · REST APIs · Postman

IntelGuard — IoT Cybersecurity Monitoring Platform

2025

Academic Project

- Engineered a full-stack IoT security monitoring system supporting real-time device tracking, anomaly detection, and automated security threat alerting.
- Developed Python FastAPI backend services with REST API endpoints for device registration, status polling, and alert lifecycle management.
- Built a React.js dashboard with role-based access control (RBAC), enabling granular permissions for device and system administration.
- Applied security best practices including threat modelling, vulnerability awareness, and secure API design patterns throughout the stack.
- Tech Stack: React.js · Python · FastAPI · MySQL · IoT Security · REST APIs · RBAC

Smart Meeting Rooms & MOM System — Full-Stack Collaboration Platform

2025

Academic Project with IDS

- Architected a multi-role meeting management system featuring smart room scheduling, conflict resolution logic, and automated Minutes of Meeting (MOM) generation.
- Implemented a Laravel PHP backend with RESTful API architecture supporting meeting creation, room assignment, and multi-participant management.
- Designed a three-tier RBAC permission layer (Admin / Manager / User) with secure session management and access enforcement.
- Tech Stack: HTML · CSS · JavaScript · Bootstrap 4 · Laravel PHP · MySQL · REST API

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, PHP

Frontend: React.js, HTML5, CSS3, Bootstrap 4/5, Figma, Canva

Backend & APIs: Python FastAPI, Laravel PHP, RESTful API Design, Postman

Databases: PostgreSQL, MySQL, SQL

Cloud & Infrastructure: AWS (Cloud Services, Scalable Deployment), Google Cloud Platform

AI & Machine Learning: LLM Integration, Generative AI, OCR, RAG Pipelines, Data Annotation, ML Fundamentals

Cybersecurity: IoT Security, Threat Detection, Secure API Design, Risk Mitigation

DevOps & Tools: Git, GitHub, Docker (fundamentals), Agile / Scrum, VS Code, Eclipse

EDUCATION

Beirut Arab University — Bachelor of Science in Computer Science *Sep 2023 – Jun 2026*

- GPA: 3.98/ 4.0 | Beirut, Lebanon
- Relevant Coursework: Operating Systems · Computer Organization & Architecture · Cloud & Edge Computing · Data Structures & Algorithms · Cybersecurity · Database Systems · Software Engineering · Object Oriented Programming

CERTIFICATIONS & TRAINING

- **AI & Data Annotation** — Dot Lebanon *2025*
- **IC3 Digital Literacy Certification** — BAU *2025*
- **CTF for Cyber Security** — Semicolon *2025*
- **Social Entrepreneurship for Tech Projects** — GIL & Nawaya *2025*
- **Introduction to Cyber Security** — TAG Digital Training *2024*