

MARIAM KAFEL

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EDUCATION

Lebanese American University (LAU)

Bachelor of Science in Computer Science

CGPA: 3.51 / 4.0 | Full USAID Scholarship Recipient

Sept 2023 – Expected June 2026

Beirut, Lebanon

INTERNSHIP EXPERIENCE

Software Development Intern _ Protel

May 2025 – July 2025 | Lebanon

- Developed backend-focused web applications using Node.js, REST APIs, and MySQL.
- Designed applications following MVC architecture and tested APIs using Postman.
- Integrated front-end components with relational databases using SQL.

Advanced Project: Meta Messenger Integration Platform

- Developed a full-stack system using PHP, Vue.js (TypeScript), and MSSQL on Azure.
- Implemented secure webhooks, JWT authentication, and Meta Graph APIs for real-time messaging.

Technologies: Node.js, PHP, Vue.js, TypeScript, MySQL, MSSQL, Azure, REST APIs, Postman

Software Development Intern _ Greateck

July 2025 – August 2025 | Lebanon

- Worked on professional web applications using React.js and Next.js.
- Implemented new features, resolved bugs, and collaborated using Git/GitHub.
- Applied AI-assisted tools to enhance debugging and development efficiency.
- Participated in team coordination and task planning using Trello.

Technologies: React.js, Next.js, JavaScript, Git, GitHub, Trello

Software Development Intern _ ITP Media Group

July 2025 – October 2025 | Lebanon (BDD)

- Built and styled responsive web pages using HTML and CSS.
- Gained practical experience with Node.js and backend programming concepts.
- Practiced front-end development using Angular and component-based design.
- Developed understanding of web application architecture and professional development workflows.

Technologies: HTML, CSS, JavaScript, Node.js, Angular

PROJECTS

Bolden _ Fashion Marketplace Platform

Final Year Project | Top 6 | 2025–2026

Lebanese American University

- Designed and built a full data pipeline scraping fashion products from multiple Lebanese retailers into a structured database.
- Developed a real-time admin dashboard for monitoring product quality, price changes, and vendor health.
- Engineered a Dead Stock Risk Algorithm scoring products based on listing age, price movement, category activity, and search visibility.
- Implemented AI-powered features: semantic search, visual search, virtual try-on, and outfit completion across multiple stores.

Technologies: Python, Node.js, React.js, MySQL, REST APIs, Machine Learning

Indoor UAV Navigation _ Machine Learning

LAU Machine Learning Course

- Researched indoor UAV navigation in GPS-denied environments using Semantic SLAM techniques.

- Integrated ORB-SLAM3, YOLOv5-based semantic segmentation, and Extended Kalman Filters for dynamic obstacle prediction.
- Focused on risk-aware navigation, motion forecasting, and safe landing strategies.

EV Charging Data Analytics _ Parallel Programming

LAU Parallel Programing Course

- Developed a parallel data analytics system to analyze EV charging behavior across computing architectures.
- Implemented parallel processing on Linux (Ubuntu) and evaluated system efficiency through comparative performance analysis.

HiddenSpot Android Mobile Application

LAU Mobile App Development Course

- Built an Android app enabling users to discover and share hidden gems (cafes, gardens, viewpoints, restaurants) with a community.
- Implemented email authentication, photo posting with descriptions and categories, and real-time notifications.
- Integrated Google Maps API for location-based discovery with search by category, city, and keywords.
- Features include rating, upvote/downvote, reviews, saved favourites, and profile management with custom stats.

Technologies: *Java, XML, Firebase, Google Maps API, Material Design, Glide, GitHub*

TECHNICAL SKILLS

Languages: Python, Java, C, C#, C++, PHP, JavaScript, HTML, CSS, JSON, Node.js

Frontend: React.js, Vue.js 3 (TypeScript), Angular, Next.js

Backend & APIs: Node.js, Express, RESTful APIs, MVC Architecture, Meta Graph API, JWT Authentication

Databases: MySQL, MSSQL, Azure-hosted databases, SQL, Database Design

Tools: Git, GitHub, Postman, VS Code, PHPRunner, Trello, Azure, Linux (Ubuntu)

Soft Skills: Leadership, Problem Solving, Analytical Thinking, Communication, Adaptability, Time Management

VOLUNTEERING

Member _ AIESEC in Lebanon

Participated in global youth leadership development programs and community projects.

Volunteer _ Bassma Foundation

Assisted with social initiatives supporting underprivileged families.

Volunteer _ Banin Charity

Engaged in humanitarian efforts providing financial and medical aid.