

AMEL MEDIOUNI

Final-Year Computer Engineering Student | Mobile & Full-Stack Development

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PROFILE

Final-year Computer Engineering student specializing in Full-Stack and Mobile Development, with hands-on full-stack experience across web, mobile, and AI-integrated. Comfortable owning features end-to-end and thrives in cross-functional teams. Combines strong technical execution with a startup-oriented mindset, from product pitches to business modeling and team leadership. Seeking a 6-month end-of-studies internship on a challenging technical project.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, Kotlin, Swift, PHP, SQL, PL/SQL, HTML, CSS
Web: React.js, Next.js, Angular, Node.js, Express.js, NestJS, Symfony, Bootstrap
Mobile: Flutter, FlutterFlow, Android, Kotlin, Swift, SwiftUI
Backend & APIs: REST APIs, JWT, RBAC, authentication/authorization
Databases: PostgreSQL, MySQL, MongoDB, Oracle
ORM / Data: Prisma
DevOps: Docker, Git, GitHub, GitHub Actions, CI/CD
AI: Gemini (Google's AI API), AI/XAI integration
Other: WordPress, UML, JIRA, Agile/Scrum

PROFESSIONAL EXPERIENCE

Engineering Intern — IEEE TalentHub07/2026 – 08/2026

Orange Digital Center × IEEE Tunisia Section | Lac1, Tunis

Next.js · NestJS · PostgreSQL · Prisma · Docker · GitHub Actions

- Built full-stack features for IEEE TalentHub, project management and contributor-recognition platform: applications, tasks, RBAC, GitHub contribution tracking, CV/skill matching.
- Designed RBAC/approval-workflow architecture and set up Docker
- Resolved schema- and service-level merge conflicts across diverged branches in a multi-developer team.

Web Developer Intern — AlgaePool07/2025 – 10/2025

Orange Digital Center × Orange Summer Challenge | Lac 1, Tunis

Next.js · Node.js · Express.js · PostgreSQL · Prisma ORM · Tailwind CSS · Docker · JWT

- Built full-stack features for AlgaePool, an IoT/AI-driven microalgae production monitoring and B2B marketplace platform.
- Implemented JWT Auth and RBAC for Clients, Supervisors, and Technicians; built real-time dashboards for IoT sensor telemetry (pH, temperature...) and farm management.
- Built the public showcase web app and integrated REST APIs with PostgreSQL via Prisma ORM.

End-Of-Study Internship — Infinite

02/2024 – 05/2024

IT-GROW | Ariana, Tunis

React.js · Node.js · Express.js · MongoDB · Mongoose · JWT · Agile/Scrum

- Working on "Infinite," a MERN platform for podcast streaming, event management, and networking.
- Built auth/account modules (password recovery, interest tagging, admin controls) and interactive podcast/event features (likes, comments, favorites, calendar sync).
- Implemented personalized recommendations and multi-criteria search/filtering.

Web Development Intern — Networking Equipment E-commerce

01/2023 – 02/2023

DevNet | Manzah 9, Tunis

WordPress · WooCommerce · Elementor · GTmetrix

- Designed and built an e-commerce platform for networking equipment sales using WordPress/WooCommerce.
- Ran performance benchmarks (GTmetrix, Pingdom, PageSpeed) to pick/optimize the theme, customized pages with Elementor, and deployed via FTP/WpVivid.

Introductory Internship

01/2022

Tunisie Télécom | Manouba, Tunis

- Professional integration internship.

PROJECTS

Tunelsland — Gamified Piano/Music-Learning App

Swift · SwiftUI · Kotlin · TypeScript · Android · MongoDB · ACRCLOUD · Google Auth · Ready Player Me

- Built a cross-platform gamified mobile app for learning piano and music.

Fieldly — Smart Farm / Mobile Integration Project at ESPRIT

Team "Straw Hats" (5 members)

Flutter · NestJS · ReactJs · PostgreSQL · Gemini · JetRacer-ROS-AI

- Security module: staff management, incident history/detail views, daily security reports, acoustic monitoring, and live feed viewing.
- Built platform notifications as Mobile Notifications Engineer (push, local, and subscription billing/return handling), machine management, QR lookup, maintenance/hour/km tracking, and a Gemini-powered AI mechanic chat assistant.
- Led the commercial pitch, financial model (TND), business plan, and Business Model Canvas.

EDUCATION

Computer Engineering — Final Year

2024 – Present

ESPRIT

Bachelor's Degree in Information Technology2021 – 2024

ISET Zaghouan — Honors: Excellent, 18/20

Full-Stack Web Development Training — JavaScript (MEAN Stack)

06/2023 – 09/2023

CrocoCoder, Tunis

Technical Sciences Baccalaureate

2020 – 2021

Ibn Abi Dhiaf High School, Manouba

VOLUNTEER & ASSOCIATIVE WORK

Communication Manager — PESTGM 7.0

01/2026 – 10/2026

IEEE ESPRIT Student Branch

Responsible RH09/2024

IEEE ESPRIT SB

HR / Event Department Manager

08/2023 – 07/2024

Enactus ISET Zaghouan

Team Leader

08/2022 – 07/2023

Enactus ISET Zaghouan

Project Manager

10/2021 – 06/2022

Enactus ISET Zaghouan

LANGUAGES

Arabic (Native), French (Fluent), English (Fluent)

OTHER

Soft Skills: Teamwork, Public Speaking, Project Management, Leadership, Organizational Skills, Critical Thinking