

# Ahmed BEN MAKHLOUF

Telecommunications Engineering Student — Software Development, Cloud & DevOps

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## SUMMARY

Final-year Telecommunications Engineering student with hands-on experience in cloud computing, full-stack development, and DevOps automation. Skilled in **Kubernetes**, **Apache Airflow**, **Docker**, **React**, **.NET**, **Node.js**, **MySQL**, and workflow orchestration. Experienced in designing and deploying **microservices**, building **CI/CD pipelines**, and managing end-to-end software projects. Seeking an end-of-studies internship (PFE) to apply technical expertise and deliver innovative software and cloud solutions.

## EDUCATION

- 2023 – Present    **Engineering Degree in Telecommunications** (Expected 2026)  
National School of Electronics and Telecommunications of Sfax (ENET'Com), Tunisia
- 2020 – 2023      **Bachelor's Degree in ICT – Telecommunications**  
National School of Electronics and Telecommunications of Sfax (ENET'Com), Tunisia

## ACADEMIC PROJECT

- Jan 2025 – Apr 2025    **ETL Pipeline Orchestration with Airflow & Kubernetes**
- Built automated ETL workflows for large-scale meteorological data processing.
  - Managed scheduling and monitoring with **Apache Airflow**.
  - Deployed pipelines on **Kubernetes** using **Docker** and **Helm**.
  - Automated data cleaning & normalization in **Python**, improving quality by 20%.

## EXPERIENCE

- Jul 2025 – Sep 2025    **Summer Internship – Proged Solutions**  
*Workflow Management Application with Power Automate*
- Built a web app integrating **Power Automate** workflows, improving operational efficiency.
  - Developed **.NET REST APIs** and **React + Redux** dashboards for real-time monitoring.
  - Implemented **Azure Entra ID** authentication, improving access security.
  - Configured alert notifications, reducing manual status checks by 80%.
- Jul 2024 – Aug 2024    **Summer Internship – Spark IT**  
*Automotive Repair Appointment Booking Platform*
- Designed backend logic in **Symfony (PHP)** with REST APIs, supporting multiple concurrent users.
  - Built responsive UI with **Vue.js**, **Bootstrap**, and **Tailwind CSS**, enhancing user experience.
  - Optimized **MySQL** queries, improving response time by 15%.
- Feb 2023 – Jun 2023    **Final-Year Internship – Darine Sparkle Products**  
*Online Ordering Web Application*
- Developed RESTful backend with **Express.js (Node.js)**, supporting multi-role access.
  - Created responsive frontend with **Vue.js**, improving usability and engagement.
  - Implemented product rating, image upload, and order tracking features.
  - Applied **MVC architecture** and normalized **MySQL** schema, enhancing maintainability.

## TECHNICAL SKILLS

**Programming:** Java, C, PHP, Python, JavaScript (Vue.js, React), SQL  
**Frameworks / Libraries:** Spring Boot, Symfony, Express.js, Redux, Bootstrap, Tailwind CSS  
**Cloud & DevOps:** Kubernetes, Docker, Apache Airflow, Helm, Git, CI/CD, Azure Cloud, Azure Entra ID  
**Networking:** Cisco (CCNA Routing & Switching), Active Directory, Windows Server  
**Databases:** MySQL, Azure MySQL, Oracle, GraphQL

## CERTIFICATIONS

Cisco CCNA: Introduction to Networks  
Cisco CCNA: Switching, Routing, and Wireless Essentials

## LANGUAGES

French (B2), English (B2), Arabic (Native)

## COMMUNITY INVOLVEMENT

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2020 – Present    **Rotaract Club Sfax Métropole**

- Served for 4 years in various roles, including **Vice President** and **Treasurer**.
- Coordinated community projects, events, and public interest initiatives.
- Managed club funds and financial planning.