

AHMED KHALIL SFAR

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Tunis, Tunisia

OBJECTIVE

Ahmed Khalil Sfar Computer Science undergraduate student at the Faculty of Sciences of Tunis, currently seeking a Final Year Project (PFE) in the fields of Machine Learning, backend engineering, networking, and system administration. Passionate about artificial intelligence, backend technologies, and computer systems, I aim to deepen my skills and contribute to innovative technical projects.

EXPERIENCE

• Nexits

SUMMER INTERNSHIP

May 2025 - August 2025

Tunis, Tunisia

- Development of a web application with NestJS, acquiring TypeScript skills
- Implementation and use of CI/CD with GitHub Actions to automate deployments and testing
- Collaboration with the team to design, develop, and maintain backend features
- Deepening knowledge of development best practices and project management

• Amen-Bank

July 2024 - August 2024

Tunis, Tunisia

SUMMER INTERNSHIP

- Development of a banking web application with two roles: Administrator (user management) and User (balance consultation and transfers)
- Implementation of 2FA authentication via OTP (generation and email sending) and use of bcryptjs/jsonwebtoken for password and session security

PROJECTS

• Web Project: [PACKAGE MANAGEMENT APPLICATION DEVELOPMENT]

March 2025

Tools : [Boot, MySQL, JWT, Maven]



- Development of a package management application allowing clients to create/manage their packages and delivery personnel to submit offers
- Implementation of secure JWT authentication and role-based architecture with specific permissions for each profile

• Web Project: [REAL-TIME CHAT APPLICATION DEVELOPMENT]

July 2024



Tools : [MongoDB, Express, React.js, Node.js, Socket.io]

- Development of a real-time chat application (MongoDB, Express, React.js, Socket.io) with JWT authentication/authorization, online status management, and global state management (Zustand)
- Modern user interface with TailwindCSS and DaisyUI

• Data Engineering Project : [DATA WAREHOUSE]

September 2025



Tools : [SQL Server, SSMS, ETL (SQL Scripts), DrawIO]

- Designed and implemented a modern data warehouse using Medallion Architecture (Bronze, Silver, Gold) with ETL pipelines for ERP and CRM datasets.

• Linux Project: [LINUX ENVIRONMENT MANAGEMENT AND CUSTOMIZATION]



Tools: [Linux, GNU Stow, i3, Zsh, Polybar, Kitty]

- Management and organization of configuration files (dotfiles) using GNU Stow for portable and maintainable configuration across multiple machines
- Automated deployment of configurations through scripts and symlink management with Stow

COMPÉTENCES

- **Programming Languages:** C, C++, Java, Python, Shell, JavaScript ,TypeScript
- **Web and Mobile Technologies:** Spring Boot, React, Tailwind,Nestjs
- **Backend Technologies:** Node.js, Express.js, Springboot,Nestjs
- **Database Management Systems:** Oracle, MySQL, MongoDB
- **Testing Technologies:** JUnit, Postman, Swagger
- **DevOps & Version Control Tools:** Git, Docker
- **Other Tools & Technologies:** Github

LEADERSHIP EXPERIENCE

- **Material Resource Manager** 2024-Present
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Free Software Club CLLFST
 - Founding member of the Genesis programming competition, aimed at encouraging algorithmic thinking and programming skill development
 - Organization of the open day event at the Faculty of Sciences of Tunis including planning, coordination, and event management to welcome and inform prospective students and the general public
 - Troubleshooting and problem resolution on Windows and Linux, including software and hardware failure interventions

CERTIFICATIONS

- **Microsoft Office Specialist: Excel Associate (Microsoft 365 Apps)** May 2024
- **CCNA: Introduction to Networks** October 2024
- **Introduction to Cybersecurity** August 2024
- **Introduction to the Threat Landscape 2.0** May 2024
- **Networking Academy Learn-A-Thon 2025** February 2024

EDUCATION

- **Faculty of Sciences of Tunis** 2024- Present
Tunis, Tunisia
Undergraduate
 - BACHELOR'S DEGREE IN COMPUTER SCIENCE
- **Sadiki High School** 2019-2023
Tunis, Tunisia
Secondary Education
 - MATHEMATICS BACCALAUREATE (Fairly Good Mention)

ADDITIONAL INFORMATION

Language Skills: Arabic (native), French (professional), English (professional), German (intermediate)

Interests: Emerging technologies (AI, Cloud, backend engineering), Open-source projects

REFERENCES

References available upon request