Mohamed Aziz Zouaghi

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in LinkedIn Profile | ○ GitHub Profile

Ibn Khaldoun City, Tunis, Tunisia

SUMMARY

Final-year Software Engineering student and Master's Research candidate in Information Systems at ENIT, with strong interests in healthcare technologies, automotive embedded systems, cybersecurity, cloud computing, DevOps, and artificial intelligence. Motivated to contribute to cutting-edge research and development projects that integrate information technology with healthcare and other critical domains to deliver secure, scalable, and impactful solutions.

EDUCATION

- **National School of Engineers of Tunis (ENIT)**   *Sep 2025 – Jun 2026*
  Research Master's Degree in Information Systems Techniques, Electrical Department   Tunis, Tunisia
- **National School of Engineers of Tunis (ENIT)**   *Sep 2023 – Jun 2026*
  Software Engineering Degree in Information and Communication Technologies   Tunis, Tunisia
- **Preparatory Institute for Engineering Studies of Monastir (IPEIM)**   *Sep 2021 – Jun 2023*
  Pre-Engineering Studies in Mathematics and Physics   Monastir, Tunisia
- **Taher Sfar Mixed High School**   *Sep 2017 – Jun 2021*
  High School Diploma – Baccalaureate in Mathematics   Mahdia, Tunisia

EXPERIENCE

- **Research Laboratory LIMTIC [⊕]**   *Apr 2025 – Present*
  FS Developer   Tunis, Tunisia
  ◦ Collaborating with researchers to design and enhance web applications that support lab workflows and data management.
  ◦ Coordinating development of user-focused features such as researcher profiles, project dashboards, and collaborative access.
  ◦ Practiced teamwork, problem-solving, and time management in a research-driven environment.
  Skills: Node.js, React, Angular, Spring Boot, REST APIs, Git, Agile

- **VERMEG, IT Department [⊕]**   *Jul 2025 – Sep 2025*
  DevOps Intern   Tunis, Tunisia
  ◦ Supported end-to-end deployment of microservices, ensuring smooth integration and operational reliability.
  ◦ Collaborated with cross-functional teams to implement automated processes and monitoring dashboards.
  ◦ Developed professional skills in communication, strategic planning, and proactive problem-solving in enterprise IT.
  Skills: Node.js, Docker, Jenkins, Ansible, Terraform, Azure, ELK, Linux

- **ENIT - Dept. of ICT [⊕]**   *Oct 2024 – Apr 2025*
  Student Researcher – Automotive Ethernet Security   Tunis, Tunisia
  ◦ Participated in a research initiative on Automotive Ethernet security, contributing to risk analysis and mitigation planning.
  ◦ Coordinated with peers to evaluate vulnerabilities and implement testing methodologies.
  ◦ Strengthened analytical thinking, attention to detail, and collaborative research skills.
  Skills: OMNET++, INET, PyVis, IDS, Automotive Ethernet, Network Security

- **RFC, Support Department [⊕]**   *Jul 2024 – Aug 2024*
  Intern   Tunis, Tunisia
  ◦ Assisted in reviewing IT policies and access controls, ensuring compliance with organizational standards.
  ◦ Learned professional documentation, auditing processes, and teamwork within a corporate IT department.
  Skills: IT Auditing, Access Control, Documentation, Corporate IT Policies

- **CodeAlpha [⊕]**   *May 2024 – Jun 2024*
  Remote Intern   Remote, India
  ◦ Contributed to the development of internal tools, improving workflow efficiency for the remote team.
  ◦ Applied problem-solving, self-motivation, and effective remote communication skills in a professional setting.
  Skills: Python, JavaScript, Remote Collaboration, GitHub, Agile

PROJECTS

Enhancing Automotive Ethernet Network Security 2025
Tools: OMNET++, INET, PyVis, IDS

* Researched vulnerabilities in Automotive Ethernet and AUTOSAR standards.
* Simulated cyberattacks (sniffing, replay, flooding) and implemented an IDS for mitigation.

LIMTIC Web Application 2025–2026
Tools: Node.js, React, Angular, Spring Boot, Keycloak

* Built a microservices platform for laboratory operations with authentication and real-time tracking.

SSATF: Transaction Validation Microservice 2025
Tools: Node.js, Docker, Jenkins, Terraform, Ansible, Azure, ELK

* Developed a microservice for transaction validation with automated CI/CD and ELK monitoring.

SAIS: Security of AI Systems 2024
Tools: Python, TensorFlow, PyTorch

* Studied vulnerabilities in AI systems and tested mitigation strategies against adversarial attacks.

JESMAZ Cinema Management System 2024–2025
Tools: JEE, JSP, MySQL, APIs

* Built a cinema management system with ticketing, payments, and user authentication.

E-commerce Platform for Bio Products 2024–2025
Tools: Spring Boot, Angular, PostgreSQL

* Developed an online store with secure payments and responsive design.

Attendance Management System 2024
Tools: Spring Boot, JS, HTML, CSS

* Built an application to track and report student/teacher attendance.

Search Engine for Document Indexing 2024
Tools: Java

* Designed a search engine with optimized ranking and filtering for relevant results.

CI/CD Pipeline for Node.js Application 2025
Tools: Jenkins, Docker, Kubernetes, SonarQube

* Automated build, test, and deployment pipeline with integrated code quality checks.

SKILLS

- **Programming Languages:** Java, Python, C, C++, C#, JavaScript
- **Web Development:** React, Angular, Node.js, Express, HTML, CSS
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud & DevOps:** Docker, Kubernetes, Jenkins, Ansible, Terraform, Azure, AWS, ELK, Linux
- **Data Science & AI:** Machine Learning, Deep Learning, Data Mining, Generative AI
- **Other Tools:** Google Cloud API, Wildfly, SonarQube, OMNET++, INET, PyVis
- **Soft Skills:** Collaboration, Leadership, Communication, Time Management, Self-Motivation, Strategic Thinking

LANGUAGES

- **Arabic:** Native
- **French:** Fluent (B2)
- **English:** Fluent (B2)

Volunteer Experience

○

Founder & President *2024 – Present*
ENIT GAMBIT Chess Club
  ∗ Established and led the first chess club at ENIT, organizing tournaments and training sessions.
  ∗ Promoted strategic thinking, teamwork, and community engagement among members.

○

Senior Member *2023 – Present*
ENACTUS Tunisia
  ∗ Contributed to social entrepreneurship projects supporting innovation and community impact.

○

Senior Member *2023 – Present*
G2FOSS Club
  ∗ Supported initiatives in free and open-source software, encouraging collaborative development and knowledge sharing.

Certifications

○ **Jenkins Pipelines – KodeKloud** *2024*
○ **Kubernetes for Absolute Beginners – KodeKloud** *2024*
○ **Terraform Basics Training Course – KodeKloud** *2024*
○ **Docker Essentials: A Developer Introduction – Cognitive Class** *2024*
○ **AWS Knowledge: Cloud Essentials – Amazon Web Services (AWS)** *2023*
○ **CCNA: Introduction to Networking – CISCO** *2022*
○ **Efficient Large Language Model (LLM) Customization – NVIDIA** *2024*