Rakia Souei

Software Engineering Student — AI Data Science Enthusiast

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Profile

Final-year Software Engineering and Information Systems student with demonstrated leadership as Founder and President of the Association de Recherche Scientifique et Innovation en Informatique ISIMG 2025, and the IEEE ISIMG Student Branch, including its IAS Chapter and SIGHT Group. Recipient of multiple international awards, including DevHack 2nd Place, IEEE Computer Society Region 8 "Share Your Journey" Winner (Egypt, 2024), IEEE Region 8 Inspiring Technology Ambassador (2025), and Student Entrepreneur of the Year (2025). Skilled in AI, Machine Learning, Deep Learning, Data Science, Django, with a strong focus on innovation, entrepreneurship, and social impact.

Education

Software Engineering

Higher Institute of Computing and Multimedia of Gabès   *Sept 2023 – Present*
- Focus on Data Science, AI, Software Testing, Agile Methods, and NLP.

Preparatory Cycle

Higher Institute of Computing and Multimedia of Gabès   *Sept 2021 – June 2023*
- Built a strong foundation in Mathematics, Statistics, and Quantitative Analysis.

Professional Experience

Squad Crafter   **Tunisia**

Django Developer Intern   *Jul 2025*
- Contributed to developing a smart university educational platform using **Django**, **Vue.js**, and **AI**.

- Designed and implemented features to enhance accessibility, interactivity, and learning outcomes.

- Strengthened expertise in full-stack web development and API integration.

TS Import Tunisia   **Tunisia**

Software Development Intern   *Jun 2025 – Aug 2025*
- Developed and maintained the backend of an E-commerce platform using **Django**.

- Collaborated with frontend developers to ensure seamless integration and data flow.

MGMAXI   **Tunisia**

Agile and Business Intern   *Jul 2024*
- Participated in ERP implementation and digital transformation projects.

- Created Excel-based financial models and interactive dashboards for performance tracking.

- Gained hands-on experience in business process optimization and agile project management.

Emertxe   **India**

IoT and Embedded Systems Intern   *Jul 2024 – Aug 2024*
- Developed a smart home automation system using **Arduino**, **PICSimLab**, and **Blynk**.

- Integrated sensors and actuators for lighting, temperature, and security automation.

- Enhanced IoT skills through data management, embedded systems, and mobile integration.

Technical Skills

- **Programming & Web:** Python, Java, JavaScript, Django, Symfony, React.js, Flutter, SQL, Git/GitHub, PHP, HTML, CSS, Testing

- **AI & Analytics:** Deep Learning, Generative AI, NLP, NVIDIA Diffusion Models, Predictive Analytics, Data Visualization

- **Software & Tools:** WordPress, Figma, Photoshop, Canva, Big Data, Cloud, Power BI, Agile & Scrum

- **Business:** ERP Systems, Financial Modeling, Business Intelligence, Project Management

Projects

- **Deep Learning Spinal Cord Segmentation:** Automated segmentation in 3D MRI using U-Net (85.53% Dice, 87.42% IoU) with a Flutter mobile app. View on GitHub

- **IoT Smart House System:** Arduino + Blynk IoT platform with real-time temperature, lighting, and water tank monitoring. View on GitHub

- **Breast Cancer Detection:** Deep learning web app for medical imaging classification. View on GitHub

- **Skin Cancer Detection:** CNN-based skin lesion classifier with interactive demo. View on GitHub

- **IEEE ISIMG IAS Chapter Website:** Responsive React.js and Tailwind CSS platform. Visit Website

- **IEEE ISIMG Student Branch Website:** website for events and member engagement. Visit Website

Leadership & Achievements

International Recognition

- Inspiring Student Ambassador – IEEE Region 8 SIGHT (2024)

- Winner – IEEE Computer Society Region 8 "Share Your Journey" Contest, Egypt (2024)

- 2nd Place – DevHACK AI Hackathon (2024)

National Achievements

- Founder & President – ARSII (Association de Recherche Scientifique et Innovation en Informatique, ISIMG) (2025–2026)

- Founder & Chair – IEEE ISIMG IAS Student Branch Chapter (2024–2025)

- Chair – Ecoguardians Competition 1.0 (2024)

- "Étudiant Entrepreneur" Label – University of Gabès (2024–2025)

Memberships & Volunteering

- Member – AIESEC (2022–2024)

- Member – Microsoft Club (2022–2023)

- Volunteer – Red Crescent (2019–2024)

Certificates & Conferences

- Avila University: Innovation & Entrepreneurship Summer Camp (US Embassy, 2024)

- IEEE Computer Society R8 Congress, Cairo, Egypt (Nov 30–Dec 03, 2024)

- IEEE WIE Annual Congress of Tunisia 4.0, Hammamet (Oct 15–16, 2024)

- IEEE Industry Applications Society Annual Meeting, Sousse (Oct 13–15, 2025)

- WYSE Bootcamp – Women United Nations Tunisia

- AIESEC NATCO National Conference, Monastir (Dec 19–21, 2022)

- IEEE Computer Society: Flutter Training Bootcamp

- NVIDIA: Generative AI with Diffusion Models & Satellite Image Preprocessing

- Data Science Associate – DataCamp

- IBM: Python 101 for Data Science

- Scrum Fundamentals Certified (SFC)

Languages

Arabic • French • English