# Bani Aya

## Software Engineering Student

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📞 29003307

📍 Korba , Tunisia

🗓 09/08/2002

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○ github.com/aya-bani

## 🧠 SKILLS

- **Programming Languages:** Python, Java, JavaScript,
- **Web Development:** HTML/CSS, React, Laravel ,Node.js, REST APIs
- **Databases:** SQL (MySQL, PostgreSQL), MongoDB
- **Tools & Platforms:** Git/GitHub

## 🌐 LANGUAGES

**Arabic**
Native/Bilingual

**English**
Fluent

**Frensh**
Proficient

## 🖊 INTERESTS

- UI/UX design
- Machine Learning
- Event Organization

## 👤 PROFILE

Software Engineering Student with strong problem-solving skills and a collaborative mindset. Passionate about building efficient solutions and applying technical knowledge to real-world projects.

## 🎓 EDUCATION

**Software Engineering Program**
ISSATSO ↗
09/2023 – present

**Integrated Preparatory Program in Mathematics, Physics, and Computer Science (MPI)**
ISSATSO ↗
09/2021 – 05/2023

**Tunisian Baccalaureate, Mathematics Section, 2021**
2 Mars High School, Korba
Achieved with High Honors

## 💼 PROFESSIONAL EXPERIENCE

**Research Intern**
Internship at Manipal Institute of Technology, India ↗
07/2025 – 09/2025 | Manipal , India
Worked on AI projects using Artificial Neural Networks for modeling, simulation, and optimization at Manipal Institute of Technology, India.

**Software Engineering Intern**
Internship at ENVAST ↗
07/2024 – 09/2024 | Sahloul, Sousse
Developed a website using React for the frontend and Laravel for the backend.

**IT Intern**
Internship at OMMP ↗
07/2023 – 08/2023 | Tunis, Tunisia
Assisted in the conception and management of file management projects.

## 📁 PROJECTS

**Fiber One Asia** ↗
07/2025 – Present
**Technologies**: React , Tailwindcss
**Responsibilities:**
- Designed the website UI in Figma for Fiber One Asia (Singaporean company).
- Developed the frontend using React and Tailwind CSS for a responsive and interactive design.
- Enhanced navigation, accessibility, and overall user experience.

**ANN-Based Optimization for SGMD Process Prediction** ↗
07/2025 – Present
**Technologies**: Python
**Responsibilities**: Developed and optimized ANN models for predicting Sweeping Gas Membrane Distillation (SGMD) performance, achieving $R^2 = 0.93$ through hyperparameter tuning and model evaluation.

**SkillForge** ↗
07/2024 – 09/2024
**Technologies**: Laravel , React , Bootstrap
**Responsibilities**:
- Developed RESTful APIs for course management and user authentication, ensuring secure and efficient data handling.
- Implemented dynamic frontend components for course listings, enrollment forms, and user dashboards using React.
- Integrated a dark/light mode toggle, improving accessibility and user experience.
- Ensured responsive design using Bootstrap, making the platform mobile-friendly.

## 🏠 ORGANIZATIONS

**North American Tunisian Engineering Group (NATEG)**
Charity Department Leader
2023 – 2024 | Sousse, Tunisia
- Led and organized impactful charity events, enhancing community engagement and support.
- Coordinated with a dynamic team to manage and execute various projects, improving event management skills.

HR member
2024-present | Sousse, Tunisia
- organizing and managing recruitment processes for new members.
- contributed to team-building activities and internal communication