



# Mohamed Amine Bacha

## Excellence Scholarship

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## Education

### Geomatics Engineering

Manouba School of Engineering

09/2023 – 06/2028

Manouba University

#### First Year Pre-Engineering : (September 2023 - June 2028)

**Key Modules:** Algorithmics and Python Programming, Data Analysis (Pandas, Matplotlib, Seaborn), Information Technology Security, Calculus 1 and 2, Linear Algebra Mechanics 1 and 2, Electromagnetism, Thermodynamics, Optics.

### Baccalaureate

Lycée manzeh 9

09/2022 – 06/2023

Speciality : Mathematics

Grade : 15.77

## Work experience

### Web Development Intern

ASQII - HealthTech

06/2024 – 07/2024

Kram-Tunis

**Technology used :** Figma/HTML/CSS/JavaScript/Firebase

- **Utilized Figma to design user interfaces** to control chemotherapy medicine preparation machines.
- **Developed web applications using HTML, CSS, JavaScript and Firebase** to activate the machine and manage data.
- **Designed and built interfaces** to allow preparators' supervisors to monitor and manage medication preparation processes.
- **Collaborated with a cross-functional team** of electronic engineers, mechanical engineers, and designers to ensure seamless integration of the software with the machine.
- **Conducted user testing** at **Salah Azaiz Hospital**, incorporating feedback to refine and improve machine and interface functionality.

## General Skills

### Python

App development / library creation

### Data Analysis and visualization

Pandas, Matplotlib, Seaborn

### HTML / CSS / JavaScript/Firebase/Flask

Web development

### Figma

User interface design

### Adobe Premiere Pro

Video editing

### Soft Skills

- Eloquent in bridging communication gaps.
- Convey ideas to technical and non-technical audiences.
- leverage diverse perspectives to solve complex problems.

## Languages

### Arabic

Native Language

### English

CEFR B1

### French

Level C2

DEL F A1

### Spanish

Level A1

## Volunteer Experience

### Member

GDSC SMU (Google Developer Student Club)

02/2024

South Mediterranean University

### Member

ENSI MUSIC CLUB

10/2023

École Nationale des Sciences Informatiques

- **Orchestrated** 2 events.
- **Moderated** a 4-hour show engaging an audience of 200 people.

### Member

IEEE MSE SB

09/2023

Manouba School of Engineering

- **Participated** in various workshops.

## Projects

- **"Optimal-Time"**

This project tackles the mountain of paperwork in hospitals with a powerful AI app. The app, designed for hospital systems, can understand both typed and spoken doctor's notes. It then generates keywords that automatically organize and summarize the data. This translates to less wasted time, improved data access, and better organization, all while freeing up staff for more critical tasks.

- **"LAKAHNI"**

Tunisia's first vaccine reminder platform combats preventable diseases with a simple solution: text message reminders. This ensures timely vaccinations, leading to a two-fold benefit: **reduced healthcare costs** for the government and **improved quality of life** for individuals through better health and fewer missed workdays.

## Achievements

- **Participated in "Healthcare GenAI" hackathon**  
03/2024 *South Mediterranean University*
  - **Analyzed 25k+ medical transcripts & built an AI** for keyword extraction to increase doctor efficiency.
  - **Conceptualized** speech-to-text for further efficiency gains.
- **Top 4 Finalist of the 'WeHelp' a 24-hour Hackathon among 14 teams**  
02/2024 *South Mediterranean University*
  - **Focused on the UN Sustainable Development Goals.**
  - **Designed an app** to achieve "Good Health and Well-being" and "Decent work and Economic growth" goals.
- **Top 5 Finalist of 'Green Remote Sensing 1.0' Hackathon**  
11/2023 *Faculté des Sciences Tunis*
  - **Analyzed satellite imagery** within a 6-hour timeframe to assess land vegetation properties and quality.
- **Commanded a 10-person team to victory in the IEEE MSE SB debate competition**  
10/2023
  - The topic was "AI is a safe replacement to humans, AI should augment human intelligence not replace it".
- **Musical Instructor**  
2019  
**Nurtured the musical talents** of over 50 students accros 6 years of violin tutoring.

## Interests

**Music:** Played violin since the age of 5 with experience performing publicly.

**Health Technology:** Invested in applying technology to healthcare solutions, demonstrated through participation in multiple hackathons and the choice of my internship.