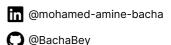


# Mohamed Amine Bacha Excellence Scholarship



Tunis, manzeh 9

94 285 525

mohamedaminebachaportfolio.netlify.app

#### 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

DELF 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 Al 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 GenAl" 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.