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.

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.

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

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.