



Aya Abid Ghozy

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ABOUT ME

As an ambitious and dedicated IoT Engineering student, I am deeply passionate about harnessing technology to craft innovative and interconnected solutions. My comprehensive understanding of IoT fundamentals, embedded systems, and wireless communication protocols, coupled with proficiency in programming languages including C/C++, Python, and Java, underscores my technical prowess. Through hands-on experience with IoT platforms like Arduino, I have honed my skills and cultivated a keen eye for detail in project execution. I am eager to channel my expertise and ingenuity towards impactful IoT endeavors, driven by a strong desire to effect positive change in society. With a fervent commitment to continuous learning and collaboration, I am poised to remain at the forefront of IoT advancements, driving meaningful progress in the field.

EDUCATION AND TRAINING

15/11/2021 – 28/06/2022 Monestir, Tunisia

MATHEMATICS BACCALAUREATE WITH SATISFACTORY NOTE Hight school Said Boubaker Moknine

CURRENT sousse, Tunisia

IOT ENGINEERING STUDENT higher institute of computer science and communication technology sousse tunisia (ISITCOM)

LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
FRENCH	C2	C2	C2	C2	C2
ENGLISH	C2	C2	C2	C2	C2
SPANISH	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

NETWORKS AND MEMBERSHIPS

Technical Manager of the ISITCOM Google Club (Higher Institute of Computer Science and Communication Technology, Sousse, Tunisia).

- Organized numerous workshops covering frontend and backend development, artificial intelligence, and MongoDB.

- Collaborated with other universities in Tunisia to host events such as IA Day, focusing on advancing students' skills in science and technology.
- Conducted workshops on JavaScript and Node.js to enhance students' proficiency.
- Played a pivotal role in promoting the club, which was founded in 2018 by a group of young students sharing a passion for IT.
- Managed developmental training, organized technological events, and actively engaged in industry challenges.

Link <https://www.instagram.com/isitcomgoogleclub/>

Member, IEEE (Institute of Electrical and Electronics Engineers)

- Actively participate in IEEE events and initiatives to stay updated with advancements in the field of electrical engineering and computer science.
- Engage in networking opportunities and knowledge-sharing sessions within the IEEE community.

PROJECTS

01/08/2024 – CURRENT

Flesk IA - Facial Recognition System:

- Developed an AI-driven facial recognition system using React, TensorFlow, OpenCV, and PyTorch, enabling real-time identification and verification.
- Implemented features such as live video processing, facial detection, and recognition with high accuracy and efficiency.
- Designed a user-friendly interface with seamless integration for various applications, including security and access control.

01/07/2024 – 31/07/2024

Stadiums - Remote Management System:

- Created a comprehensive remote stadium management system with an Angular-based web application, a mobile application in Flutter, and IoT integration using ESP8266.
- Implemented real-time monitoring and control of stadiums, including game session scheduling, availability tracking, and live updates through an IoT afficheur device.
- Designed a role-based access system where security personnel manage game sessions and owners access analytics and performance data, all connected through Firebase for real-time database and authentication.

Link <https://github.com/ayaabidghozy13/stadium-smart>

Website for Fast Food Ordering (Speedy Bites):

- Developed a mobile application for fast food ordering, allowing users to browse menus, customize orders, and make payments seamlessly.
- Implemented features such as real-time order tracking and push notifications for order updates.
- Integrated with restaurant backend systems for order processing and inventory management.

Link <https://github.com/ayaabidghozy13/speedy-bites>

03/04/2024 – 08/04/2024

mobile application for t-shirt design

Mobile App for T-Shirt Design: Create custom T-shirts with 4 Palestine-themed designs using this Java and XML-based app. Users can personalize colors, and proceeds support humanitarian efforts in Palestine, making every purchase meaningful.

Link <https://github.com/ayaabidghozy13/mobile-app-for-tshirt-design>

Website for Song Quiz

- Designed and developed a website for a song quiz game, allowing users to test their knowledge of music across various genres and decades.
- Implemented features such as song previews, multiple-choice questions, and scoring functionality
- Designed an intuitive user interface with responsive design principles for seamless gameplay on different devices.
- Technologies used: HTML/CSS, JavaScript, Spotify

Link <https://github.com/ayaabidghozy13/music-quiz-html-css-js>

Line-Following Robot :

- Led the design, construction, and programming of a line-following robot capable of autonomously tracking a specified path.
- Utilized skills in robotics, electronics, and programming to create a functional and efficient prototype.
- Achieved first place in the RoboNerds competition organized by IEEE in November 2023.

Link <https://www.instagram.com/reel/Cld3YBEoOxz?igsh=b3FmejRjeXM2OGVn>

Frontend Development (Gaming Website):

- Solely responsible for frontend development of a gaming website, focusing on creating captivating user interfaces and immersive experiences.
- Utilized HTML, CSS, and JavaScript to design and implement dynamic and responsive frontend components.

Communication Techniques Projects:

I have assembled a diverse array of projects centered around effective communication techniques, with a particular emphasis on leadership and public speaking.

● TECHNICAL SKILLS

Algorithms :

A passion for designing and optimizing solutions for complex computational problems.

Frontend Development Skills:

- Proficient in crafting visually appealing and functional web solutions utilizing **HTML, CSS, JavaScript, and React**.
- Experienced in creating responsive and dynamic web pages to enhance user experience and engagement.
- Skilled in translating design concepts into code, ensuring seamless integration of graphics, layout elements, and interactive components using React.
- Capable of troubleshooting and debugging to ensure optimal performance and compatibility across different browsers and devices.

Programming Languages :

- Java Expertise: Proficient in object-oriented programming (OOP), multithreading, generics, and collections in Java, enabling the development of robust and scalable applications across various platforms.
- Python Proficiency: Demonstrated expertise in Python programming, specializing in versatile application development, scripting, and automation tasks.
- C/C++ Skills: Skilled in C/C++ languages with a focus on low-level system programming, efficient memory management, and optimization techniques. This expertise makes me suitable for high-performance software development and embedded systems.

IoT Platforms & Programming :

- Skilled in developing IoT solutions using ESP32 and ESP8266 microcontrollers.
- Expertise in connecting devices to the internet, implementing sensor networks, and managing IoT data through various protocols.
- Proficient in programming Arduino microcontrollers for IoT projects, including sensor interfacing, data collection, and actuator control.
- Experience with VHDL (VHSIC Hardware Description Language) for designing and simulating digital circuits, particularly in FPGA (Field-Programmable Gate Array) development.
- Familiarity with System on Chip (SoC) architectures, including ARM-based platforms, for embedded systems development and IoT applications.

CURRENT

Flutter Development:

- Proficient in developing cross-platform mobile applications using Flutter.
- Experienced in creating responsive and high-performance mobile apps with Dart, utilizing Flutter's widgets and state management.

IA

- Gained hands-on experience in AI and facial recognition technologies using React, TensorFlow, OpenCV, and PyTorch.
- Contributed to the development and testing of real-time facial recognition systems, improving the accuracy and efficiency of AI algorithms.
- Collaborated with a team to integrate AI features into user-friendly interfaces for security and access control applications.

software design methodology

UML (Unified Modeling Language) and Software Conception:

- Proficient in utilizing UML (Unified Modeling Language) as a standard graphical notation for modeling software systems, aiding in the conceptualization and design phases.
- Experienced in applying UML diagrams such as class diagrams, sequence diagrams, activity diagrams, and use case diagrams to visually represent various aspects of software design and conception
- Skilled in using UML diagrams to communicate and document software requirements, architecture, and design decisions effectively during the conception phase
- Capable of leveraging UML as a tool for collaboration among team members and stakeholders, facilitating a common understanding of the software system under development from conception to implementation.

Networks:

- Local Area Network (LAN):
 - Proficient in designing, configuring, and managing local area networks (LANs) for efficient communication within a single location or building.
 - Experience in implementing LAN technologies such as Ethernet, Wi-Fi, and VLANs (Virtual Local Area Networks).
- Wide Area Network (WAN):
 - Skilled in establishing, configuring, and maintaining wide area networks (WANs) to connect geographically dispersed locations.
 - Experience with WAN technologies including MPLS (Multiprotocol Label Switching), VPN (Virtual Private Network), and leased lines. add here with packet racer .
- Protocols:
 - In-depth knowledge of network protocols including TCP/IP, DNS, DHCP, SNMP, and HTTP/HTTPS.
 - Familiarity with routing protocols such as OSPF (Open Shortest Path First) and BGP (Border Gateway Protocol).
- Models:
 - Thorough understanding of the OSI (Open Systems Interconnection) model and its seven layers.
 - Proficiency in the TCP/IP model and its encapsulation process across layers.
- Cisco Certifications:
 - Cisco Certified Network Associate (CCNA) - Routing and Switching (Certification 1)
 - Cisco Certified Network Professional (CCNP) - Routing and Switching (Certification 2)

Security Knowledge:

- Proficient in asymmetric cryptographic systems and digital signature methods.
- Basic understanding of security principles including investigation techniques and security attacks.

ISTQB Certified (International Software Testing Qualifications Board)

Culture and Digital Literacy

Certification in the Culture and Digital Literacy (2CN) course signifies successful completion of an international pedagogical training program designed to enhance students' mastery of digital technologies and computing skills.e description.