Salmane El Mansour Billah

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PROFILE

I'm an aspiring software engineer with a strong passion for cybersecurity and artificial intelligence. I thrive on tackling innovative and impactful projects where I can apply both my technical expertise and leadership skills. I'm always eager to learn, grow, and contribute in dynamic and challenging environments that push me to excel while making a meaningful difference.

EDUCATION

Al Akhawayn University — Ifrane, Morocco
Bachelor of Science in Computer Science, Minor in Business — *Aug 2021 – May 2025*
- GPA: 3.73/4.0
- Relevant Courses: Database Systems, Agile Software Engineering and DevOPS, Adv.Distribut.Programming Paradigms, Principles of Finance

University of Helsinki (Exchange Program) — Helsinki, Finland
Computer Science Program with focus on AI — *Jan 2023 – Dec 2023*
Relevant Courses: Introduction to Artificial Intelligence, Data Structures and Algorithms

EXPERIENCE

Research Project Manager — Jan 2025 – Present
Office of Academic Research - Al Akhawayn University — *Ifrane, Morocco*
- Managed multiple research projects, overseeing timelines, resources, and deliverables.
- Collaborated with faculty and students to facilitate research initiatives and ensure project goals were met.
- Coordinated research activities, ensuring compliance with university policies and standards.

Summer Intern — June 2024 – Aug 2024
Atos · Cybersecurity Division — *Casablanca, Morocco*
- Utilized cybersecurity tools such as Nexpose, AppSpider to identify and mitigate vulnerabilities in enterprise systems.
- Conducted security assessments, improving system resilience and applying best practices to secure digital assets.

Peer Mentor — Sep 2023 – Dec 2023
Center for Excellence in Learning - Al Akhawayn University — *Ifrane, Morocco*
- Facilitated academic and social integration for 17 new students, fostering community engagement.

Senator — Jan 2023 – Dec 2023
Student Government Association (SGA) - Al Akhawayn University — *Ifrane, Morocco*
- Advocated for student rights and collaborated with 15 Senators to improve campus policies.

Academic Tutor — Jan 2023 – May 2023
Al Akhawayn University — *Ifrane, Morocco*
- Provided academic support in Social Sciences courses related to politics and sociology.
- Tailored lesson plans to individual student needs, enhancing understanding and retention.

PROJECTS

BMJ Platform — Ongoing
AI-powered Analytics and SEO Tool
- Developed a platform that retrieves website analytics using Google Analytics APIs.
- Integrated an AI chatbot for real-time analysis and actionable SEO advice to optimize website indexing.
- Implemented features for tracking and enhancing website performance and visibility.

FlameCam360 — Ongoing
AI Tool for Real-time Detection of Fire in CCTV
- Designed and implemented an AI-based solution to detect fire in CCTV footage in real-time.
- Utilized computer vision techniques and deep learning models to enhance detection accuracy.
- Integrated alerting mechanisms to notify relevant authorities immediately upon detection.

Brain Tumor Detection — Ongoing
AI Tool for Brain Tumor Detection
- Developed an AI tool to detect brain tumors from MRI scans using convolutional neural networks (CNNs).

- Implemented data preprocessing techniques to enhance model training and accuracy.
- Collaborated with medical professionals to validate and improve the AI model's performance.

Emb Business   Completed

Landing Page for Car Parts Business
- Designed and developed a modern, responsive landing page for a company specializing in the import and sale of new car parts in Morocco.
- Showcased products and services with an intuitive interface and optimized for user engagement.

Association Malak   Completed

Platform for Social Solidarity Association
- Developed a platform for Association Malak de Solidarité Sociale, focusing on providing medical aid and distributing medical equipment to people in need.
- Implemented a modern interface to highlight the association's mission, projects, and impact.

TECHNICAL SKILLS

Programming Languages: Python, C, Java, JavaScript, R, HTML/CSS
Web Development: Tailwind, React.JS, Next.JS, React Native
Back-End: Node.js, Express.js, SQL, Spring, FastAPI
DataBases: MySQL, PostGres, MongoDB, FireBase, SupaBase
Tools & Platforms: Git, GitHub, Docker, GCP, Microsoft Azure, Socket API, Vercel, Apache Spark, Kafka
Analysis: NumPy, Pandas, TensorFlow, Keras

CERTIFICATIONS

Imperial College - Mathematics for Machine Learning (Coursera)

DeepLearning.AI - Neural Networks and Deep Learning (Coursera)

Soliya Connect Program Certificate

LANGUAGES

Arabic: Fluent
French: Fluent
English: Fluent

EXTRACURRICULAR ACTIVITIES

Organized MPC Youth Forum: "Inclusion of Young People in Politics – The Problem of Abstention."

Hosted the White-OPS AUI Club CTF Competition.

Vice- President of the Moroccan Politics Club at Al Akhawayn University in Ifrane