Ziyad Mourabiti

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EDUCATION

Technical University of Munich, *MSc Data Engineering & Analytics* Grade: 2.2 Passed with Merit   2023 - 2025
Al Akhawayn University, *BSc Computer Science Minor Com Studies* GPA: 3.74 Summa Cum Laude   2018 - 2022

Master's Thesis: Enhancing Photovoltaic Detection Using Generative AI for Super-Resolution Satellite Imagery
Bachelor's Capstone Project: An Open-Source Magic-Bitboards Implementation of a UCI Chess Engine in C++
Honors: Full Tuition Scholarship Award 2018 | 2x President's List Honors | 3x Dean's List Honors

EXPERIENCE

SAP SE   September 2024 – Present
- **CXS Built-In Support | Full Stack SWE (April 2025)**: Driving end-to-end feature ownership in the Built-In Support Core Team, spanning requirement definition, epic planning, and secure-by-design implementation (threat modeling), while influencing the evolution, reliability, and maintainability of a large-scale microservice-based platform.
- **PE UX Frontrunner Lab | WS (Sept 2024)**: Contributed to the design and analysis of Product Experience and customer feedback pipelines, supporting data-informed improvements across multiple SAP solution areas.

Quasara (Xpreneurs Incubator), *Full-Stack Developer (ML)* | WS (Munich, Germany)   Jun 2023 – Mar 2024
- Led the end-to-end development of Plato 2.0, a scalable platform for semantic search over large image datasets (100k–1M+), designing core system components for similarity detection and clustering using Next.js, FastAPI, and AWS.

Al Akhawayn University, *Adjunct Laboratory Assistant of Computer Science* | Ifrane (Morocco)   Sep 2022 – May 2023
- Redesigned and delivered relational database coursework, emphasizing practical full-stack application development and distributed database concepts for undergraduate students.

Groupe Renault, *Software Engineering Intern* | Morocco   Feb 2022 – Jun 2022
- Executed requirements engineering for a cross-platform mobile application, translating user research and product briefs into actionable technical specifications within a SCRUM delivery model.

neoCedrus (Al Akhawayn University), *Full-Stack Software Developer* | Morocco   Jan 2021 – Oct 2021
- Delivered full-stack solutions for university and public-sector projects, applying modern software engineering practices across data analysis, backend services, and user-facing applications.

SKILLS

Core Engineering	TypeScript, JavaScript, Python, SQL, Bash
Web & Platform	React, Next.js, Node.js, tRPC, Prisma, React Query, REST APIs
Architecture & Cloud	Microservices, Distributed Systems, AWS, GCP, CI/CD (GitHub Actions)
Data & Analysis	Pandas, NumPy, PostgreSQL, MongoDB, Tableau
Quality & Tooling	Git, Jest, React Testing Library, LaTeX

PROJECTS

Security Compliance Assessment | Siemens AG (Co-op), *Digital Product Innovation & Development*   Apr 2024 – Aug 2024
- Designed and delivered a security compliance assessment solution to improve the visualization and evaluation of compliance artefacts for developers and ReFA (Reference Architecture for Security Compliance DevOps) maintainers, supporting more efficient and consistent security reviews.

Generative AI Integration for a Crops Breeding AI Platform – *NoMaze (Application Project)*   Apr 2024 – Oct 2024
- Led quality consulting and system-level refactoring efforts to improve performance, scalability, and maintainability across a data-driven AI platform.
- Integrated an LLM-powered interaction layer enabling conversational data exploration, visualization, and interactive pipeline construction for domain experts.

DelayBahn – *Advanced Distributed Databases (TUM)*   Dec 2023
- Built a distributed web platform for European travel planning and Deutsche Bahn delay prediction, processing over 2M trips using a Next.js-based T3 stack and scheduled data ingestion pipelines.

Jury – *School of Business Administration (Al Akhawayn University)*   Apr 2023
- Developed a digital evaluation platform to streamline the assessment of capstone projects and presentations, deployed using Next.js, Supabase, and Vercel.