

# Ziyad Mourabiti

## Curriculum Vitae

### RELEVANT WORK EXPERIENCE

JUN 2023 – MAR 2023 (PT)  
Quasara Startup — Munich, Germany  
**Working Student: Full-Stack Software Developer**  
I led development of Plato 2.0, an online platform for semantic search on large image datasets (100k - 1m+) and other functionalities such as clustering and similarity detection. using Nextjs, FastAPI, and AWS.

SEP 2022 – MAY 2023 (FT)  
Al Akhawayn University — Ifrane, Morocco  
**Adjunct Laboratory Assistant of Computer Science**  
I renewed and taught new material for relational databases, with emphasis on real-world use cases that involve design, processing, and modern implementation. The lab material also spanned practical experience in creating full-stack applications with distributed databases.

FEB 2022 – JUN 2022 (FT/REMOTE)  
Groupe Renault — Casablanca, Morocco  
**Software Engineering Intern**  
Requirements Engineering work that included user research, product brief, and tangible requirements for a cross-platform mobile application and transitioning to technical software requirements in SCRUM.

JAN 2021 – OCT 2021 (PT)  
neoCedrus — Al Akhawayn University  
**Software Developer (Full Stack)**  
I have worked and contributed to university and Moroccan Government projects as a full-stack developer, some of which continue to be used to this day, bleeding-edge technologies that span data analysis and software engineering best practices.

### SELECT PROJECTS

#### DelayBahn – 2023/24

Website that allows users to make travel arrangements while receiving insights on potential delays based on historical data. Uses Nextjs 13 with T3 Stack (Typescript, Tailwind, tRPC), Prisma, NextAuth, Planetscale, Vercel, and Cron-jobs for scraping Deutsche Bahn (DB) data.

#### JURY – 2023

A digital platform tailored towards digitalizing the evaluation of Capstone Projects/Presentations for the School of Business Administration at Al Akhawayn University in Ifrane. Stack: Nextjs 13 with T3 Stack, Supabase, and Vercel.

#### Capstone Project – Magic Bitboards Chess Engine 2022

C++ Engine featuring efficient move generation through bitboards and bit shifting operations, the use of Magic Bitboards for pre-calculating sliding piece attack tables. Negamax with Alpha-Beta Pruning, Principle Variation Search, Quiescence Search, MVV-LVA, Move Ordering, Zobrist Hashing, and Transposition Tables.

#### DataStorm – 2021

Internal data analysis and visualization web app for students' academic and performance information. It acts as a tool to view and assess students' overall college performance and anomalies or academic risks. Uses Angular, Express, and MongoDB.

#### Use of NLP & Word Embeddings in Foreign Policy Analysis – 2020

Research Project about current contributions and illustration of how Natural Language Processing can improve the accuracy of quantitative and qualitative FPA approaches.



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### EDUCATION

2023 – NOW **Masters of Science**  
Data Engineering and Analytics  
Technical University of Munich  
2018 – 2022 **Bachelor of Science**  
SUMMA CUM LAUDE – 3.74 CGPA  
Computer Science  
Al Akhawayn University in Ifrane

### AWARDS

2020, 2021 **President's List 2x – Dean's List 3x**  
School of Science & Engineering, AUI  
2018 **Full Tuition Scholarship Award**  
Al Akhawayn University in Ifrane

### TECHNICAL SKILLS

PROGRAMMING T3 Stack (tRPC, Tailwind, Typescript),  
Prisma, React Query, Next, Node,  
Angular, Git, Strapi, Github Actions  
PRODUCTION & AUTOMATION Photoshop, Indesign, Premiere Pro,  
Illustrator, Figma, Adobe XD, MS Office  
PowerAutomate, PowerApps, PowerBI  
ANALYSIS Python, Numpy, Pandas, Excel, SQL

### COMMUNICATION SKILLS

LEADERSHIP PR & COM Stud. Gov. Assoc. 2020  
TEDxAUI President 2019