Ziyad Mourabiti

Curriculum Vitae

RELEVANT WORK EXPERIENCE

MAY 2024 - NOW (PT)

Fortiss Research Institute — Munich, Germany

Working Student Researcher: AI/ML Engineer

Project Support on RESONANCE (Replicable and Efficient Solutions for Optimal Management of Cross-sector Energy), for creating a software framework for plug-and-play development of solutions for demandside flexibility management of distributed and small-scale assets.

JUN 2023 - MAR 2024 (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 202I - OCT 202I (PT)

neoCedrus — Al Akhawayn University Software Developer (Full Stack)

Worked on university and Moroccan Government projects that span data analysis and software engineering best practices.

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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

President's List 2x – Dean's List 3x 2020, 2021

School of Science & Engineering, AUI

2018 Full Tuition Scholarship Award

Al Akhawayn University in Ifrane

TECHNICAL SKILLS

T₃ Stack (tRPC, Tailwind, Typescript,) PROGRAMMING

> Prisma, React Query, Next, Node, Angular, Git, Strapi, Github Actions

PRODUCTION & Photoshop, Indesign, Premiere Pro,

Illustrator, Figma, Adobe XD, MS Office AUTOMATION

PowerAutomate, PowerApps, PowerBI

ANALYSIS Python, Numpy, Pandas, Excel, SQL

COMMUNICATION SKILLS

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

SELECT PROJECTS

DelayBahn - 2023

Website that allows users to make travel arrangements while receiving insights on potential delays based on historical data for over 2 million trips. Uses Nextjs 13 with T3 Stack (Typescript, Tailwind, tRPC) and Cron-jobs for scraping Deutsche Bahn (DB) data.

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 precalculating 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 (Selected Project from neoCedrus)

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.