El IMRANY Issam

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EDUCATION

International academy of civil aviation (AIAC)   *Expected Graduation: Jul 2025*

Masters of engineering in Computer Science

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Deep Learning, Distributed systems, Design patterns

SKILLS

- **Back-End Development:** Nest.js | FastApi
- **Front-End Development:** Next.js | Tailwind
- **Database Management:** MySQL | MongoDB | Oracle Database | PL/SQL
- **Programming Languages:** TypeScript | Python | Java | C++ | C
- **Other :** LangChain | TensorFlow | PyTorch | linux/unix OS | OpenCV | Docker | testing

EXPERIENCE

Software Engineering Resident - HEADSTARTER, *New York, NY*   *Oct 2024 - Present*
- Built 14+ machine learning, ai-engineering and full-stack projects in fast-paced software team environments
- Developed 5+ neural networks in Python, 11 apps in Typescript on AWS/Vercel with dev and production environments
- Implemented llm-chaining, hyperparameter tuning, fine tuning on 10+ LLM models controlling for latency & accuracy
- Coached by Google Machine Learning, Google Kubernetes, Two Sigma, Tesla, Figma and Citadel Engineers
- Created 321+ commits on github with 7-day deadlines getting a Career Capital increase of 40% from start date

Software Engineering Intern - Digital Squad, *Casablanca, MA*   *Jul 2024 - Sep 2024*
- Implemented a scalable Nest.js backend for bank reconciliation (Nest.js, Mongodb, Firebase)
- Implemented the frontend to interact with the endpoints (Next.js, tailwind)
- Implemented unit tests, integration tests and E2E tests (Jest)
- Dockerized the application, and implemented the CI/CD pipeline with GitHub actions for deployment to an EC2 instance

Machine learning Intern - Dginerva Consulting, *Casablanca, MA*   *May 2023 - Jul 2024*
- Trained a text classification model using RoBERTa architecture for theme identification.
- Integrated a variety of LLMs for data extraction
- Implemented a scalable Flask backend ensuring efficient data flow between ML models and the frontend
- Implemented the frontend using react
- implemented the CI/CD pipeline with GitHub actions for deployment to an EC2 instance

MENTORSHIP

- **ML Tutor:** Programming | TensorFlow | ML algorithms | API deployment (IT club, 2023/2024)

LATEST PROJECTS

Brain Tumor Classification *(~10 hours)*   *Oct 2024 - Oct 2024*
- Used neural networks in Python to classify 1000 MRI scans into 3 types of brain diseases with custom CNN model
- Generated multimodal MRI reports for neurosurgeons in under 200MS after image classification, construction & training

Vercel v0 Clone *(~30 hours)*   *Sep 2024 - Sep 2024*
- Used open-source libraries in Typescript and LLM-chaining in Python to dynamically craft react assets for a brand
- Defined constraints to automate front-end engineering needs like landing pages, contact forms, login pages
  to dynamically create and match the theme of popular brands and icons like Duolingo, Apple, etc

COMPETITIONS/ HACKATHONS

- **MNPC23:** Ranked 12th over about 300+ teams in this national competitive programming competition.. (02/2024)
- **Attijari Wafabank coding challenge:** Won 3rd place, I developed a functional task manager using JS in under 45 minutes. (05/2024)
- **ACC FinTech hackathon:** *a strategy consulting hackathon hosted by the Mastercard company. We won 3rd prize.* (05/2024)
- **SCH:** a strategy consulting hackathon hosted by BCG. We managed to get the 3rd prize. (01/2024)
- **CROMEK robotics competition:** Won the 1st prize, we presented our mini autonomous car.(05/2023)
- **RACE2SPACE:** Rank in 24/1600+ applicants for this space program organized by the U.S. Embassy in Morocco. (04/2020)

LANGUAGES

- **English :** Professional Working Proficiency   •   **French :** Professional Working Proficiency   •   **Arabic :** Native