Jad F. Alaoui

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EDUCATION

University of Michigan	**August 2022 - April 2026**
B.S.E. in Computer Science	*Ann Arbor, MI*

- **CS Coursework**: Programming and Data Structures, User Interface Development, Data Structures and Algorithms, Discrete Mathematics, Machine Learning, Algorithm and Computation Theory, Computer Organization, Command-Line Interfaces
- **Honors and Extracurriculars**: College of Engineering Dean's List, Traders at Michigan, Michigan Hackers

EXPERIENCE

Ineos	**June – August 2023**
Software Engineer, Internship	*Remote*

- Spearheaded development of an internal inventory tool to track laptops within the office environment, utilizing Python, HTML/CSS, SQLite, and the Django framework. Incorporated feedback from IT and Cybersecurity teams to tailor the tool to their specific requirements and meet company standards in terms of security and accessibility.
- Designed and implemented a comprehensive full-stack solution, including an internally hosted web application, to streamline the process of tracking and assigning company-issued laptops. This tool, still in active use, has significantly improved office asset management and allocation efficiency.

ITS-University of Michigan	**October 2022 – Present**
Sales Consultant, Part-time	*Ann Arbor, MI*

- Managed equipment orders exceeding $1 million for various departments, faculty, staff, and students. Monitored procurement processes to maintain high efficiency and respect of deadlines.
- Utilized enterprise-level e-commerce software and attained certification for Apple Retailer applications to assist customers with purchases.

Casablanca Stock Exchange	**June – August 2022**
Software Engineer, Internship	*Casablanca, Morocco*

- Cooperated with the Information Systems team to facilitate the stock exchange's transition to online trading. Contributed to the implementation of solutions that reduced operation processing time by 40%, reducing trading latency between banks and the exchange.
- Organized focus groups involving the C-Suite and led by the CEO, centered around retail trading's future in Morocco. Analyzed market trends and regulatory considerations, gaining insight into the financial industry's impact on the local economy.

Nokia	**June – July 2021**
Software Engineer, Internship	*Remote*

- Collaborated with the sales and logistics team to develop Python scripts, optimizing tasks such as customer support and network optimization. Gained hands-on experience in scripting and problem-solving, honing my skills in automation and optimization.
- Participated in network planning projects across Africa, shadowing key executives. Compiled valuable insights into network infrastructure, strategic planning, and cross-functional collaboration into a detailed, peer-reviewed report on global telecom operations.

PROJECTS

Zingers Trading Simulator	**January – April 2024**
Python, Django, SQL, REST, React, Tailwind

- Engineered a web-based trading simulator project using Python, Django, React, and Tailwind CSS, emphasizing secure user authentication, real-time trading mechanics, and an engaging UI for an immersive learning experience in market trading dynamics.
- Designed RESTful APIs for dynamic portfolio management, implemented websocket-based live market updates, and utilized Django models with SQLite for price tracking and leaderboard updates, enhancing user engagement through interactive and competitive learning.

Bon Voyage	**April 2024**
Django, RESTful APIs, AJAX, Google Gemini	*Created for MHacks X Google Hackathon*

- Developed a Django-based travel planning tool integrating Skyscanner and Google Gemini 1.5 to automate personalized travel suggestions, enhancing data handling and application responsiveness through AJAX.
- Tackled technical challenges such as API rate limiting and complex data parsing, advancing our team's expertise in machine learning and collaborative software development.

SKILLS

Technical Languages: Python, C++, MATLAB, Java, JavaScript/TypeScript, HTML/CSS, SQL (SQLite), R, LaTeX
Tools: Git, Jupyter Notebook, Django, Magento, Adobe Creative Suite, VMWare
Languages: English, French, Arabic, Spanish