Alaa Kaddour

Ariana, Tunisia | Phone: +216 25404766 | Email: kaddour-alaa@topvoce.com
LinkedIn: https://www.linkedin.com/in/kaddouralaa | GitHub: https://github.com/geekalaa |
https://kaddouralaa.topvoce.com

SUMMARY

Agile, detail-oriented, organized, and meticulous Full-Stack engineer with hands-on experience in home server management. Works at a fast pace to meet tight deadlines. Enthusiastic team player ready to contribute to company success, with a proven record of delivering high-quality, scalable solutions. Known for effective problem-solving and communication skills, along with demonstrated leadership abilities. Bilingual in French and Arabic, fluent in English, and dedicated to continuous professional growth.

EXPERIENCE

UBIAI – California, United States - Remote
Full-Stack Engineer / Team Leader (Kudra.ai)   09/2022 to Present

- Developed and optimized a machine learning ETL workflow application's frontend and backend, increasing entity extraction accuracy by 25% through Django and Python.
- Optimized microservices architecture by identifying performance bottlenecks in CPU-intensive tasks, leading to strategic externalization of these tasks to serverless AWS Lambda, which improved scalability by 35%, reduced latency by 20%, and cut operational costs by 15%.
- Enhanced and maintained AWS infrastructure and CI/CD pipeline, increasing scalability by 30% using Docker, AWS Lambda, EC2/ECS, S3, and RDS.
- Diagnosed and resolved microservice scalability issues, successfully processing over 200k files with a 40% improvement in resource utilization through optimization.
- Supervised and enhanced the code review process, reducing bugs by 20% and ensuring the integrity of each feature.
- Integrated third-party APIs (OpenAI, Google, Amazon Textract OCR, QuickBooks) to extract data, increasing precision by 35% through advanced ML LLM model integration.
- Implemented Agile tools (JIRA, Microsoft Teams) to automate workflows, resulting in a 20% improvement in development process efficiency and team communication.
- Mentored and led a 5-member development team to implement advanced security protocols, including encryption and regular audits, resulting in SOC 2 compliance.
- Refactored microservices on GCP Cloud Run to reduce memory consumption and processing time, enhance scalability, and optimize architecture, replaced Flask with FastAPI, boosting performance and responsiveness for Tunisia's first generative AI legal platform (ia-consult.tn).
- Diagnosed and resolved OS-level bugs in production EC2 instances, enhancing stability and minimizing downtime.
- Deployed and monitored model training workflows in SageMaker, optimizing code to reduce resource consumption by 15%.
- Contributed to technical decision-making and evaluated solution architectures for Kudra.ai and IA-Consult, ensuring optimal design and implementation.
- Implemented monitoring tools (cAdvisor, Prometheus, Grafana) to track workflow executions and microservices, improving system observability and performance metrics.
- Configured linters and SonarQube within GitHub Actions, automating code quality assessment and improving error detection.

UBIAI (Graduation Internship) – California, United States - Remote
Full-Stack Engineer Intern   02/2022 to 08/2022

- Developed and launched a SaaS platform for NLP model fine-tuning using Django and Python, improving ML project management efficiency and finetuning capabilities by 17%.
- Developed a CI/CD DevOps pipeline with linters using GitHub Actions, optimizing code quality and reducing deployment time by 12% through automated testing and continuous integration.

- Collaborated with cross-functional teams to integrate advanced NLP features like entity extraction and language modeling, improving platform efficiency and enhancing the user experience.
- Applied agile methodologies with tools like JIRA to manage project timelines and deliverables, ensuring consistent on-time delivery and exceeding project expectations.
- Performed comprehensive testing and debugging using pytest and Selenium, quickly resolving issues to maintain optimal platform performance and reliability.
- Created clear and concise technical documentation, including user guides and system architecture using GitBook, to ensure seamless knowledge transfer and ease of understanding among team members.

CHARACTER COUNT INFO (Self-Employed) – Ariana, Tunisia
Full-Stack Engineer (charactercountonline.info)   12/2021 to 08/2022
- Conducted A/B testing and implemented SEO best practices, improving on-page SEO by 30% and enhancing UI/UX, increasing visitor engagement.
- Developed a web application for character and word density analysis using PHP, JavaScript, and related technologies, enhancing text analysis efficiency by 40%.

PLACEHOLDER (Summer Internship) – Ariana, Tunisia
Full-Stack Engineer Intern   06/2021 to 08/2021
- Developed and deployed a WordPress plugin for managing galleries with various layouts using CSS3, HTML5, and related technologies, increasing site functionality by 25%.
- Conducted UI/UX analysis on three clients' websites, providing optimization reports that improved user engagement by 20%.

TUNISIAN POST (Graduation Internship) – Tunis, Tunisia
Full-Stack Developer Intern   02/2018 to 05/2018
- Developed and launched a web-based event management platform and API using HTML5, JavaScript, and related technologies, increasing event management efficiency by 30%.
- Designed and implemented database structures and wireframes for an online event management platform, improving data organization and user interface.

EDUCATION

PRIVATE HIGHER SCHOOL OF ENGINEERING AND TECHNOLOGY– Ariana, Tunisia   09/2019 to 06/2022
Master, Computer Science Engineering

FACULTY OF ECONOMICS AND MANAGEMENT NABEUL – Nabeul, Tunisia   09/2015 to 05/2018
Bachelor of Science, Computer Science

SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL, PHP.
Frameworks & Libraries: Django, Flask, FastAPI, Gunicorn, Angular, Celery, React.js, Redux, jQuery, Nodejs.
Cloud & DevOps: Amazon Web Services (AWS: S3, SNS, SQS, EC2, ECS, Lambda, SageMaker), Google Cloud Platform (GCP: Cloud Run), Docker, Docker Compose, Git, CI/CD, Linux.
Data & Monitoring Tools: PostgreSQL, MySQL, MongoDB, Redis, Prefect, Airflow, Grafana, Prometheus, cAdvisor, Zoneminder.
Networking and servers: Home server management, Nginx configuration, Docker deployment, FTP Server, BIND9 DNS, SMB Server, Wireguard VPN, Debian, and Red Hat servers.
Architecture & Design: Microservices Architecture, System Architecture, Object-Oriented Programming, Service-Oriented Architecture.
Web Development: RESTful API, HTML, CSS, WordPress development, user experience (UX), SEO best practices.
Project Management: Agile/Scrum, Jira, Canva, team leadership and mentoring.
Other Tools: ETL, Duplication (Duplpicati), technical documentation (GitBook).
Languages: Bilingual in French and Arabic, fluent in English.
Certifications: Certified in HTML5, CSS, jQuery, JavaScript, and Fundamentals of Red Hat Linux.