

ILYAS ABDELLAOUI

SOFTWARE ENGINEERING STUDENT AT ENSIAS

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EXPERIENCE

Full Stack Developer ioSolutions SARL

July 2023 – Sept 2023

Casablanca, Morocco

- Ensured scalability for ioFlow, a cloud workflow management software, by migrating image storage to Amazon S3, efficiently handling a large user base of over 69,000 users.
- Optimized response time to 20 seconds with Ajax calls.
- Streamlined deployment process using Dockerfile.
- Revamped user interface (UI) for enhanced user experience.
- Contributed to TechProfile (New Solution): Defined system requirements and authored technical documentation.

Skills: Django, AWS S3, HTML/CSS/JS, Ajax, JIRA

PROJECTS

SporterZ - Football Fans Social Network

Spring Boot, kubernetes, Istio, AWS, Kafka, Gitlab CI/CD, Angular, Tailwind CSS

- Built a distributed application utilizing microservices principles.
- Enabled real-time communication in user rooms via Apache Kafka.
- Deployed on AWS with Kubernetes and Istio for MS communication.
- Integrated secure authentication using JWT for enhanced security.
- Automated the development workflow by establishing a GitLab CI/CD pipeline for continuous testing, building, and deployment.

Spendly - Personal Budget Management App

FastAPI, PostgreSQL, React, GraphQL, RESTful API, Redis, Vercel

- Employed GraphQL for flexible data retrieval.
- Incorporated Redis-based rate limiting to restrict registrations to 1 per minute.
- Developed password reset flow with SendGrid email delivery.
- Facilitated insightful financial analysis by enabling category-wise tracking of transactions and spending patterns.
- Deployed the application on Vercel, ensuring reliable hosting and continuous integration and delivery processes.

MoviesZen - Video Extraction Tool

Node.js, PM2, Ubuntu, Oracle Cloud, Nginx, SSL, MongoDB

- Designed bookmarklet-enabled tool to extract video iframes from websites using Node.js and PM2 on an Ubuntu VM in Oracle Cloud Infrastructure.
- Configured Nginx to handle HTTP/HTTPS traffic routing, reverse proxying, domain association, and SSL encryption.
- Utilized Total Security API for HTML frame security analysis and correct link verification.
- Implemented video extraction, temporary HTML response generation, and MongoDB storage with UUIDs.
- Scheduled 24-hourly cron job for automatic temporary file removal.

EDUCATION

2nd Year, Software Engineering Program (Equivalent to 1st Year of Master's in Engineering)

Higher National School of Computer Science and System Analysis (ENSIAS - Rabat, Morocco)

Sept 2022 – Present

Relevant Coursework: Software Engineering, Operating Systems, Algorithms, Data Analysis, Artificial Intelligence

Mathematics and Physics (MP)

Preparatory Classes CPGE Salmane AL-Farissi - Salé, Morocco

Sept 2020 – Aug 2022

Relevant Coursework: Algorithms and Data Structures, Programming with Python, Applied Probability & Statistics, Linear Algebra, Calculus

SKILLS

Programming: Java, JavaScript, Python, C, SQL, Shell Scripting

Frameworks/Libraries: Spring Boot, Node.js, Django, Flask, React, Angular

Databases: PostgreSQL, Oracle Database, SQL Server, MongoDB, Redis

Cloud Platforms: AWS, GCP, Oracle Cloud Infrastructure (OCI)

DevOps & Tools: Docker, Kubernetes, GitLab CI/CD, Git, Linux, NGINX, Jira, Agile/Scrum

VOLUNTEERING

- Lead ENSIAS Alumni Survey V2: survey & results survey.ensiasbridge.ma
- Organized Alumni Briefings: Connected students & professionals

LANGUAGES

Arabic: Native/Bilingual

English: Complete professional capacity

French: Complete professional capacity