

Mohamed Amine SAYAGH

SOFTWARE DEVELOPER

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GitHub: github.com/masayagh

Programming Lang: TypeScript, PHP, Golang

Portfolio: masayagh.com

SUMMARY OF EXPERIENCE

Committed software developer professional with over 7 years of experience. Successfully led and delivered more than 13 projects for international clients across various industries, consistently enhancing process delivery and enabling personalized experiences at multiple stage.

PROFESSIONAL EXPERIENCES

Cyber Cohesion Security Community's Firm

Research & Development, Web Tech Lead, DevOps • Self-Employ, Singapore • 05/2023 07/2024

- Architected and developed the logical part of a **Kubernetes-based Namespace** by implementing a **Golang RESTful API** that serve data access for a security competitions domain, Integrating with **Kubernetes controller-runtime**. Enhanced deployment isolation and pipeline productivity (within a 1-month, 3-member team cooperation).
- Led the development of **internal libraries**, enabling the creation of a **scalable microservice platform** comprising 2 dashboards, 1 RESTful API, 3 databases with **personalized caching and logging strategies**, and 2 landing pages. **Standardized development processes**, enhancing maintainability, scalability, with a **web security compliance** (within a 7-month, 6-member team cooperation).
- Reduced server query response time of a **No-SQL database** by 11% through **optimizing the database schema and refining the indexing**. (within a 2 months).

Golang • Bash • Javascript / TypeScript • PHP • Docker & Docker Compose • Kubernetes • Nginx • MongoDB • MySQL • Restful • CI/CD pipeline development

Jonas Digital Agency Solar Digital Agency

Full Stack Web Developer • Freelance, London • 07/2023 On going

- Deployed a **cloud-based production** based on **NGINX** for containerized applications. **Optimized deployment workflows** through **CI/CD pipelines**, ensured rigorous testing, and achieved a **sixfold reduction in project development time** (within 4 weeks of development, followed by 5 months of continuous improvement).
- Enhanced marketing impact by adding **data visualization** for key KPIs and achieving over **90% performance on Google Speed Index** (continuous improvement, contributing within a 4-member sales team).
- Achieved 7 would-wide **full-stack projects**. Implemented **responsive designs**, integrated **third-party APIs**, and achieved **high client satisfaction** (across a 6-month period).

JavaScript / TypeScript • PHP • Bash • WebHook • API Integration • Restful API • React • Cloudflare • Nginx • Docker • MySQL • Unite Testing • CI/CD

Lavish Trading Investment Agency

Full Stack Web Developer • Freelance, London • 05/2022 07/2022

- Developed a **web solution** with high standards of **front-end adaptability** and **user experience fluidity** by implementing a **single-page application** with **webhook** and **API integration** with a **PostgreSQL data center** for a global project managing over \$100 million in active investments, backed by 12 years of experience.

JavaScript / TypeScript • Next.js • Vercel • SMTP server • JS Web Workers • PostgreSQL • API Integration • Figma • Google Tag Manager

SKILLS

Cloud Services:

Cloudflare • Google Cloud • AWS • Oracle Cloud • Github Codespace • Heroku • Vercel

Containerization and Orchestration:

Docker • Docker Compose • Kubernetes • NGINX

Programming Languages:

JavaScript / TypeScript • PHP • Golang • SQL • BASH

Front-end / Back-end:

Vue/Nuxt • React/Next.js • Express • Nest • Tailwind • Dom • State Management: Redux.. • Tanstack • Next Turbo • Firebase • Kafka • Elastic Search

Architecture, Protocols, and Integration:

RESTful API • OAuth v2 • GraphQL • WebSocket • Webhook

Database:

MySQL • MongoDB • PostgreSQL • Redis

Version Control and CI/CD:

Git • GitHub • GitHub Action

Testing Practices:

Unit Testing (Jest) • Functional Testing (Cypress) • Regression Testing (Puppeteer) • Integration Testing (Supertest, Postman)

Artificial Intelligence:

Open AI • ChatGPT-4 • Copilot • Midjourney • RAG • LangChain

Methodology and Standards:

Agile • SOLID • Design Pattern • Clean Code • Distributive System • Serverless

Design:

UI/UX • Design thinking • Photoshop • Illustrator • Figma

Content Management System:

Shopify • WordPress • Strapi • Headless CMS

CHALLENGES

Realtime Dashboard :

06/2024 08/2024 • [View the project repository](#)

- Developed a monolithic web application, containerized for a distributive system deployment, staged on a CI/CD testing process (within 2 week).
- Ensured Quality Assurance of the pipeline by implementing a cache build of the containers from multistage, followed standardized database solutions like Redis cache, indexation, and schema optimization (within 2 months).
- Designed a database solution to abstract labeling needs of a scholar domain, resulting in a streamlined structure with 17 collections (within 1 week).

Zec: Data Parsing Library :

05/2024 - 07/2024 • [View the project documentation](#)

- Developed a PHP open-source library for data parsing and serialization by leveraging schema definition and modular, extensible configuration management.
- Ensured the library's reliability and ease of use through successful testing and comprehensive documentation.

Music NFT, Artist Sofiane Pamart :

07/2021 - One week

- Collaborated in a 140-member team, including 40 developers led by Oussama Ormmar, to develop visual NFTs for artist Sofiane Pamart, achieving successful project launch within one week.

EDUCATION

Master's in Big Data & Cloud Computing : University of Hassan II, Casablanca, since 2023

Bachelor's in Computer Science : University of Hassan II, Casablanca, 2022 - 2023