

Dhia Eddine Gharsallaoui

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SUMMARY

A Solution Architect passionate about Cloud Computing and Blockchain Technology. I like automating things, building pipelines, exploring scalability problems and improving efficiency and performance.

EXPERIENCE

Solution Architect

Skilld | February 2022 - Present | Paris, France

- Led the development and architecture of durable, scalable platforms by integrating Microservices Architecture, Domain Driven Design, and Event Driven Architecture, significantly improving system responsiveness and scalability.
- Developed and maintained multiple projects using Go (Golang), Python, and Scala, incorporating SQL for database management and queries.
- Engineered and deployed Spark data pipelines leveraging Apache Spark, Apache Kafka, Apache Druid, and Apache Delta Lake, achieving 80% build time optimization.
- Deployed and managed Kubernetes clusters, streamlining deployment pipelines using Docker, Ansible, Git, GitHub Actions, and GitLab.
- Contributed to sophisticated data storage solutions using PostgreSQL, TimescaleDB, DragonflyDB, and Trino.
- Integrated monitoring tools including Grafana, Graylog, Elasticsearch, and Prometheus for system health insights.
- Designed and implemented SSO architecture for platform cross applications using Ory ecosystem, ensuring secure and seamless authentication across multiple services.

Freelance Blockchain Developer

ChainsAtlas | March 2024 - Present

- Developed and optimized multi-chain bridge protocols integrating EVM-compatible chains with XRPL, implementing secure cross-chain asset transfers and NFT operations for enhanced interoperability.
- Architected and implemented battle reward systems with multi-signature validation for blockchain gaming, incorporating XRP and NFT reward distribution mechanisms.
- Built robust transaction processing systems with retry logic and nonce management, achieving improved transaction reliability across multiple blockchain networks.
- Designed and implemented agnostic blockchain operations involving smart contracts in Solidity and TypeScript, with a focus on secure multi-signature wallet functionalities.
- Enhanced blockchain bridging infrastructure by developing verifier and guardian systems, implementing secure validation protocols for cross-chain operations.
- Created comprehensive testing environments and deployment automation scripts, ensuring reliable smart contract deployments and updates.

Freelance Software Engineer

idatase GmbH | January 2024 - March 2024 | Remote

- Led development of scalable data aggregation API system for automated metrics collection.
- Architected modular microservices solution using Python/Flask, PostgreSQL, and Docker.
- Implemented comprehensive API authentication with JWT tokens.
- Created automated CI/CD pipeline using GitHub Actions.

SKILLS

Systems Design & Architecture

Scalable platform architecture, Microservices, Domain Driven Design, Event Driven architecture, Blockchain Architecture

Programming Languages

Go (Golang), Python, Scala, SQL, Solidity, TypeScript, JavaScript

Blockchain Technologies

Smart Contracts, Web3.js, Ethers.js, OpenZeppelin, XRPL, EVM

Big Data Technologies

Apache Spark, Apache Kafka, Apache Druid, Delta Lake, PySpark, Hive Metastore

DevOps & Deployment

Kubernetes, Docker, Ansible, Git, GitHub Actions, GitLab, Hardhat

PROJECTS

Mage-ai - [Open Source](#)

Contributed LDAP authentication, Apache Druid integration, and logger centralization features.

Go-mail - [Open Source](#)

Contributed by adding the middleware concept and their tests and OpenPGP encryption middleware.

Go-RTE - [Open Source](#)

A Go RTE API client enabling Go programs to interact with RTE APIs in a simple and uniform way.

EDUCATION

Master's Degree in Computer Science

MINES ParisTech | 2020 - 2021

Minor in Mathematics

Engineer's Degree in Industrial Engineering

ENIT | 2018 - 2021

Minor in Data Science