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Web & Blockchain Architect

17 years experience delivering efficiency

Introduction

As a skilled web and blockchain architect with extensive experience in designing and implementing complex solutions, my objective is to leverage my expertise in distributed systems and blockchain technology to help organizations in improving their business operations.

I am committed to delivering innovative and cost reducing solutions according to my clients constraints and budget in order to drive growth and increase efficiency, while ensuring security, data integrity and quality practices requirements are met.

My goal is to contribute to the success of organizations that value innovation and excellence.

Skill Set

Stacks: React, Angular, Java/JEE, Python (Django & FastAPI), NodeJS (Express, Apollo)

Programming languages: Java, Javascript/Typescript, Python, C, Shell script

Blockchain: Ethereum, Solidity (sole), geth, Hardhat, Truffle, Remix, web3, ethers.js

Infra: AWS, Azure, Github actions, Gitlab CI, Azure DevOps, Bitbucket, Docker, VirtualBox, VMware

Databases: MySQL, PostgreSQL, Oracle, MongoDB, MSSQL, ElasticSearch, SQLite, H2

Servers: NodeJS, Apache httpd, Nginx, Jboss/Wildfly, Tomcat, jetty

Tests automation: Robot framework, Testcafe, Selenium grid, Mocha, Jest, Chai, pytest

Brokers: RabbitMQ, Redis, IBM Websphere MQ

Work Experience

YZ network (since feb 2017)

Blockchain architect & cypto-assets consultant

<https://www.yz-network.com>

Spearheaded the design and implementation of secure and real-time blockchain architectures that facilitated smart-contracts based distributed applications, resulting in user-friendly interfaces.

Conducted extensive research and analysis to identify the most suitable blockchain platform for each use case and protocols to provide tailored solutions for each needs.

Web3 advanced tokenization platform

- YZ aims to provide full transparency to all parties involved in web3 projects by providing automated charged tokens solutions, allowing to unlock liquidity while enabling early stage token economies to be created, helping projects to focus on the core of their business.

Real estate investments tokenization platform

- Had to cover for the lack of tools by developing in-house tools such as a debugger, gas profiler and deployment automation.

Environment : React, Redux, Bootstrap, NodeJS, Express, GraphQL, MongoDB, JSON Web tokens, Redis, Ethereum, Metamask, Solidity, geth, Remix IDE, Docker, Github actions, AWS, Node providers

TotalEnergies Digital Factory (may 2021 – mar 2023)

Assistant Techlead & JEE/Angular Fullstack developer

Collaborative and configurable platform for Drilling Statement of Requirements

- Worked on a critical application for drilling projects, based on existing business practices, from day one to the final product delivery, using a unique and flexible data model enabling the team to use runtime form generation.
- Trained juniors on the team, gave recommendations during feature definition meetings with the tech lead and troubleshoot several issues on data integrity, atomicity, performance and quality.
- Automated end user and load testing and added real-time capability to improve user adoption.

Environment : Azure, Github, Tomcat, Spring, Ehcache, OpenAPI, Angular, Gatling, Sonarqube, JUnit, Testcafe, Gherkin, Terraform, Terragrunt, docx-stamper

Markeyz (dec 2020 – apr 2021)

Ethereum Blockchain R&D Engineer

Automated Arbitrage Trading system

- Extensive research on Decentralized Exchanges such as Uniswap, Balancer, Curve to fully understand the Automated Market Making concept and existing solutions. Reverse-engineered smart-contracts source code to extract trading formulas and theorized formulas and requirements to optimize profitability.
- Managed in house nodes hosting and optimization to reduce downtimes to zero, while developing a distributed architecture running trading bots on several DEX at the same time, executing trades whenever an opportunity appeared.
- Optimized trades execution rate by integrating flash loans and gas tokens.
- Handled recruitment and training of new members for the team.

Environment : Typescript, NodeJS, Express, MongoDB, Docker, AWS, Ethereum, geth, web3, Solidity, Remix IDE

Foodles (2016 - 2018)

Web Architect & Python/AngularJS Fullstack developer & DevOps

Automated meals dispensers

- Designed a new back-office & interfaces to replace legacy no code tools and integrate every business process in a single system, from prototyping to production deployment, defining the scope with the direction team and operatives.

- Adapted the solution while handling testing, cloud deployment and automation, following the startup evolution.

Environment : Python, Django, AngularJS, AWS, Docker, PostgreSQL, Apache HAProxy, Elasticsearch, Kibana

Natixis / BPCE (mar - jun 2016)

JEE API Architect

BIG - MVPs realization in a Digital Factory

- Helped product owners to design the MVP on solutions choices.
- Designed and developed the solution as a Single Page Application.
- Collaborated with other MVP teams to develop common practices at the factory

Environment : AngularJS, NodeJS, JEE, JBoss, JAX-RS, EJB, JPA, Birt, JasperReports, Oracle, Maven, Suite Atlassian (Jira, Confluence, Bitbucket), Jenkins

IFP School (aug - nov 2015)

AngularJS/JEE Architect & Fullstack Developer

CAS – Decentralized skills assessment system

- Designed and developed a decentralized web solution to replace legacy practices and improve the organization's efficiency in one month.
- Ensured compatibility with the old system through worksheets import/export as a fallback.
- Automated build and deployments.

Environment : AngularJS, JEE, JAX-RS, Apache POI, Spring, JPA, Birt, MySQL, Tomcat, Maven, Docker, Git

Armature Technologies (jan - aug 2015)

HTML5 Developer & Devops

Gatewatcher – Advanced cyber threats detection system

- Developed a real-time administrator interface for the appliances.
- Gave recommendations on the requirements to move from R&D to production while keeping the appliances safe with in-house package registries for debian and libraries updates, allowing the team to pick which updates to push or hold.

Environment : Docker, Debian, Linux, MongoDB, Redis, Websockets, Perl, Git

French Central Bank (2009 - 2014)

Senior JEE developer

TELSAT – Treasury bonds auction system

- Developed the new application on JEE ecosystem from the start until it reached production.
- Reverse engineered the legacy application to complete the features specifications.
- Automated user & load testing to be able to profile performance and optimize the application for traders.

- Debugged deployment tools with the infra teams.

Environment : JSF, Spring, Hibernate, JUnit, Maven, Tomcat, Oracle, Bamboo, Eclipse, Selenium, JProfiler

GISEL – Securities database usable as loans collateral

- Developed and tested several modules with the design team.
- Trained the maintenance team and collaborated with them on some feature developments.

Environment : JSF 2, JPA, Spring, Hibernate, JUnit, Maven, JBoss 6, Oracle, Bamboo, Eclipse

MSH - Paris Nord (2006 - 2008)

Assistant CIO

Deployed and added custom modules on an open-source enterprise collaboration system in 3 months time instead of a whole year that was expected.

Afterwards, I moved on studying and rationalizing the whole laboratory IT infrastructure, adding automated backups, new services and documenting everything.

PHP web developer

- Single-handedly deployed and tuned an enterprise collaboration system (eGroupWare).
- Trained researchers on the system usage.
- Identified redundant administrative processes and developed custom modules to automate them.

IT Administrator

- Mapped and reverse engineered network and services in order to optimize them when needed, automated backups.
- Added new services to help researchers gain in efficiency (Active Directory, LDAP, web sites, FTP, Windows roaming profiles).
- Deployed an automated computer inventory system on every computer of the lab (OCS inventory).

Environment : Perl, Java, Apache httpd, OpenLDAP, Samba, DNS, FTP, Mail, FreeBSD, Windows, Cisco

Education

2007 Master in Computer Science, Paris 8 University
Artificial Intelligence and combinatory optimization (major)

2002 Bachelor's degree in Electronics and Industrial Computing, Cergy-Pontoise University

Languages French (native), English (fluent), Japanese (beginner)