Maël LE PETIT

Full Stack Software Engineer

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EXPERIENCE

CTO & CO-FOUNDER | NOVALABS
Feb 2022 | Montreal, QC

- → Built a GraphQL API that serves data between the front-end and the python algo-trading bots.
- → Created socket server to allow console streaming between automated bots & web app.
- → Built micro-service using Spring framework in Java to allow communication between our application and production server.
- → Developed web application named TUXN in Typescript using React. SSR & CSR implementation to increase rendering efficiency.
- → Write tests, fixing bugs and documenting processes.
- → Create CI/CD pipeline for fully automated production on our own server.

FULL-STACK BLOCKCHAIN DEVELOPER | JOLLY ROGERS SOCIETY
May 2022 - Freelance | Montreal, QC

- → Design and developed decentralized application with NFT Marketplace & multi wallet connection support with Next and Typescript.
- → Developed generative art application to create random NFTs with different layers and rarity in 4K with Node.
- → Developed ERC721A contracts with implementation of royalties using Solidity.
- → Write tests with Hardhat and deployed contracts on Rinkeby and Ethereum network.
- → Leverage IPFS and Web3 Storage to store the NFT Metadata.

BLOCKCHAIN ENGINEER | LENNYVERSE
Dec 2021 – Feb 2022 | Montreal, QC

- → Design and developed decentralized application using React & Ether.js.
- → Developed smart contract using Solidity and Openzeppeline librairies.
- → Implementing ERC20, ERC721, DAO (of-chain) and NFT Marketplace.
- → Developed & deployed graph API using TheGraph protocol.
- → Tested contracts with Hardhat framework.

FULL-STACK TECHNICAL ASSISTANT | UNIVERSITY OF MONTREAL
Jan 2021 – Nov 2021 | Montreal, QC

- → Implementing a GraphQL API with Strapi to manage the application.
- → Build new features on the web app called **Protheus**, allowing to facilitate the creation of online courses for the professors during the COVID-19 using VueJS framework.
- → Collaborated with professors of the university.

PROJECTS

POLYHX HACKATOWN | LEAD DEVELOPER
Feb 5, 2021 - Montreal, QC

- → Built a full-stack mobile app to encourage more local consumption, let's give more visibility to the farmers so that they can more easily sell their production directly to consumers in order to limit the middlemen, have a fairer system and limit the food waste induced by the number of middlemen.
- → Build with Javascript, React Native, Firebase & GCP.

PSIL LANGUAGE & INTERPRETER
2020 - Montreal, QC

- → Development of a small functional programming language called Psil, and its interpreter in Haskell.
- → Implementation of simple variable declarations or with type, of function and their calls, tuples and conditional expressions.

SKILLS

PROGRAMMING

Java • Typescript • Javascript
Python • Rust • Shell • C#
Solidity • Julia • Haskell • Assembly

LIBRARIES/FRAMEWORKS

JAVA
Spring

WEB
Node.js • React • React Native
Next • Redux • Jest • Vue
Tailwind

BLOCKCHAIN
Openzeppeline • Ether • Web3
Hardhat • Truffle • Chainlink
Slither • Substrat • TheGraph

SQL/NOSQL

MySQL • Redis • MongoDB
Cassandra

TOOLS/PLATFORMS

Git • Webpack • GCP
Docker • Unix • IPFS storage

EDUCATION

UNIVERSITY OF MONTREAL

B.S.
COMPUTER SCIENCE
Sep 2019 - Dec 2021
Montreal, QC

LANGUAGES

French, Native
English, Professional