

ABOUT ME :

I am an experienced developer in Python and Node.js, with a solid background of over 4 years in Backend development, creating Data pipelines, managing Microservices, and Frontend design with React. Additionally, I possess advanced skills in DevOps, containerization, and automation.

My professional journey has allowed me to work effectively within multidisciplinary teams, where I value collaboration and communication. However, I am also capable of leading and managing projects autonomously, demonstrating my versatility and ability to take initiative

Education :

2018 - Bachelor's Degree in Computer Science

Mouloud Mammeri University of Tizi Ouzou

Language Skills:

- French: Fluent
- English: Professional
- Arabic: Fluent
- Kabyle: Native

Technical Skills:

Best Practices: Agile/Scrum

Languages: Python, JavaScript (ES6, Node.js), TypeScript, SQL, Bash

Databases: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

ORM/ODM: TypeORM, Mongoose, MongoEngine, Sequelize

API/Architecture: REST (Swagger), GraphQL, Microservices, Event-Driven, TDD,

Version Control: Git (GitHub, GitLab)

Systems: Linux, Windows

DevOps: Jenkins, GitLab CI, GitHub Actions, Linux, Bash, Ansible, Kubernetes (k8s)

Containerization: Docker, Docker Compose

Queue Management: RabbitMQ, Redis

Unit Testing: PyTest, Jest, Mocha

Professional Experience :

ITEXC-GROUP : Backend Developer and DevOps Engineer

march-2024/Current

I worked on the vitolker.dk project, which consists of three dashboards: customer, admin, and partner. This project focused on providing professional translation services, emphasizing the need for precise, subject-specific native language translators. Our goal was to tailor a language solution adapted to the target audiences' needs, offering various types of translations.

Key responsibilities and achievements:

- Developed and maintained backend services using NestJS, ensuring robust and scalable solutions.
- Designed and implemented CI/CD pipelines in GitLab CI for backend and frontend applications, tailored for different environments (test, production, release).
- Automated the build and deployment processes using Docker and Docker Compose, ensuring efficient and consistent deployment of applications.
- Managed and configured servers for deployment, ensuring high availability and performance.
- Addressed and resolved load issues, optimizing system performance and reliability.
- Wrote and maintained Bash scripts for data migration and other server management tasks, ensuring smooth transitions and minimal downtime

Technical Environment:

NodeJS (NestJS), REST, Microservices, Docker, Docker-Compose, NPM, Postgres, MongoDB, Gitlab-ci

NEW DIGITAL WAY: Backend Developer and DevOps Engineer

JAN-2023/FEV-2024

Project 01: Development of an innovative web application called "Zhotels."

This application was designed as a comprehensive reservation management solution for a hotel, aiming to optimize the booking process and enhance the customer experience.

Tasks:

- Analysis of requirements and workload estimation
- Design of application architecture and infrastructure
- Data model design
- Development of unit tests to ensure code quality and coverage with Jest
- Development of REST APIs with ExpressJs
- Implementation of a microservices architecture with communication via RabbitMQ
- Development of the application interface with React
- Ensuring DevOps (CI/CD) with GitHub Actions
- Support for user acceptance testing and handling feedback
- Monitoring code quality and merge requests
- Using the Scrum methodology with backlog planning and task distribution

Technical Environment:

NodeJS (ExpressJs, React, Redux), REST, Docker, GitHub Actions, Nginx

Project 02: Design of an exciting web application called "Pitzatkoum."

This application aimed to manage pizza orders and deliveries while integrating a role management system and efficient tracking.

Tasks:

- Utilized Express.js, MongoDB, and React for development.
- Implemented a Monolithic architecture.
- Integrated a role management system to secure access to features.
- Secured authentication with OAuth.
- Developed unit tests with mocks and Jest.
- Tracked orders and deliveries for efficient management.
- Implemented continuous integration and continuous deployment (CI/CD) with GitHub Actions.
- Designed a user-friendly interface with React.

Project 03: Contributed to the development of a platform specifically designed for SSB (Société des Services Bancaires).

This platform aimed to simplify the management of their requests (TPE) and included an attractive homepage as well as a comprehensive dashboard.

Tasks:

- Designed and developed the overall architecture of the application.
- Configured the local development environment.
- Set up the MongoDB database and created schemas.
- Developed the server-side RESTful API with Express.js and Node.js.
- Integrated user authentication (JWT, OAuth).
- Designed and developed the user interface (UI) with React.
- Managed application state with Redux.
- Conducted unit testing with tools such as Jest and Mocha.
- Implemented user session management.
- Handled error and exception management in the code.
- Used WebSockets for real-time communication.
- Optimized application performance.
- Configured production and pre-production environments.
- Implemented application monitoring and logging.
- Performed continuous maintenance, bug fixing, and feature enhancements.
- Documented source code and APIs with Swagger.
- Participated in team meetings for planning and coordination using Jira.

EXPEDIA CHRONO : **backend developer** 03 /2022 à 12 / 2022

Project: Development of a comprehensive web application for a parcel and mail delivery company.

This application aimed to efficiently manage user roles, facilitate inter-establishment trip management, and ensure parcel registration and tracking. It was developed using Django as the Python framework for APIs, MongoDB as the database, Swagger for documentation, and Git with GitLab CI/CD for code management and deployment.

Tasks:

- Designed the overall architecture of the application.
- Developed APIs with Django for managing user roles, inter-establishment trips, and parcels.
- Implemented MongoDB database for efficient data storage.
- Used Swagger for API documentation.
- Managed source code with Git to track changes and facilitate collaboration.
- Configured GitLab CI/CD to automate the deployment process.
- Created user roles with different permissions to secure access to features.
- Implemented inter-establishment trip management to optimize routes.

Technical Environment:

Agile/Scrum, Python (Django, Pytest), React (Redux), Gitlab Ci, API REST (Swagger), MongoDB, Docker

Freelance: Fullstack Developer JAN-2020 / NOV-2022

Projects:

Development of a gym management application

Development of a private school management application

Tasks:

- Led all Agile/Scrum ceremonies.
- Implemented best practices and ensured adherence to them (code reviews).
- Identified needs, issues, and estimated workloads.
- Designed application architecture.
- Designed and created PostgreSQL and MongoDB databases.
- Designed and developed project templates and reusable modules (Express, React, Django).
- Developed unit tests (Jest, Pytest).
- Developed REST APIs, GraphQL, and microservices.
- Developed multiple web applications using React.

Technical Environment:

Agile/Scrum, Node.js (Apollo Server, GraphQL, Express, Socket.io, Mongoose, Jest), Python 3 (Flask, REST, MongoEngine, Pytest), React (Apollo Client, Redux), MongoDB, PostgreSQL, Redis, RabbitMQ, Docker, GitLab