

# YOUCEF BOUTICHE

## PYTHON DEVELOPER ENGINEER

26 Grande Rue, 59100 Roubaix, France | +33 751 373 114 | youcef.boutiche.dvp@gmail.com

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Holder of a Master's degree in Web Analytics from the University of Lille and a Master's degree in Software Engineering and Information Processing from the University of Boumerdès (Algeria), I am seeking a new opportunity as a Python developer to leverage my knowledge and expertise to contribute to innovative projects.

### PROFESSIONAL EXPERIENCE

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#### CloudDataEngine – Villeneuve-d'Ascq – FRANCE

2025–2026

##### PYTHON BACK-END DEVELOPER (6 MONTHS)

- Development of backend APIs with **FastAPI** for automating ICT service compliance checks. Data model design using **Pydantic**. Authentication and authorization via **Keycloak**. Web interface development with **NiceGUI**. Management of databases with **PostgreSQL**. Implementation of **unit tests** and **integration tests** with **pytest**.
- Set up a CI pipeline with **GitLab CI/CD** (jobs, stages, test automation).
- Containerization of services with **Docker** and **Docker Compose** for container execution.

#### Quantificare – Sophia Antipolis – FRANCE

2025

##### FLUTTER DEVELOPER INTERN (6 MONTHS)

- Created a **Flutter plugin** to adapt a 3D desktop model to Android/iOS. Integration of internal native **C++** libraries in Flutter via **FFI**, OpenGL ES context management with **Kotlin**. Analysis of datasheets, presentation of technical solutions to managers. Collaboration with cross-functional teams (Method, Web) using collaborative tools (**Git**, **GitLab**, **Jira**) following an Agile approach.

#### University of Boumerdès – Algeria

2022–2024

##### PART-TIME LECTURER IN ALGORITHMICS

- Taught fundamental algorithms concepts and supervised practical labs in C++.

#### Freelance – Algeria

2023–2024

##### MOBILE & WEB DEVELOPER

- Built a hotel room reservation application enabling users to book online with two payment options: via **PayPal** or payment at check-in. Stack: **Django** (server-side), **PostgreSQL** (database), **HTML**, **CSS**, **JavaScript** (front-end).
- Designed and developed a complete inventory management web application using **Django** for server logic and **HTML/CSS/JavaScript** for the user interface.

#### Sonatrach (Oil Company) – Algeria

2022

##### INTERN

- Developed a web platform for data analysis, processing, and filtering. Used **Django** for server-side management, **scikit-learn** for machine learning model integration to predict flow rates and prevent blowouts at oil wells, and **pandas** for data cleaning and filtering.

### PERSONAL PROJECTS

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**Chatbot Mobile App:** Built an interactive ChatGPT-like chatbot. (Flutter – Firebase – Django – Groq API)

**E-Commerce App:** Developed an e-commerce web application. (Django, PostgreSQL, HTML, CSS, JS)

**CRM Project:** Designed and built a customer relationship management application. (Django, Python, rest\_framework API, Vue.js, PostgreSQL)

**Marketing Web:** Created a blog and optimized its SEO. (WordPress, Semrush)

### EDUCATION

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#### University of Lille – France

2025

### **MASTER'S IN WEB ANALYTICS**

Programming in Dart (Flutter), PHP (Symfony) and Python (Django), Web Architecture and Applications, Business Intelligence Power BI, Machine Learning for the Web, Web Marketing.

**University of Boumerdès – Algeria**

2022

### **MASTER'S IN SOFTWARE ENGINEERING AND INFORMATION PROCESSING**

Algorithmic Complexity, Formal Methods, Advanced Databases, UML Design, Information Retrieval, Advanced Design Methods.

**University of Boumerdès – Algeria**

2020

### **BACHELOR'S IN INFORMATION SYSTEMS AND SOFTWARE ENGINEERING**

Information Systems, Decision Support Systems, Advanced Web Programming, UML Design.

## **SKILLS**

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**Languages & Frameworks:** Python, FastAPI, Django, Flutter (Dart), HTML, CSS, JavaScript, Vue.js, PHP (Symfony)

**Data & Databases:** SQL, MySQL, PostgreSQL, RDF4J, SparQL, pandas, scikit-learn

**Tools & DevOps:** Git, GitHub, GitLab, Docker, Docker Compose, GitLab CI/CD, Jira, Agile

**Other:** Pydantic, mypy, CMake, Ninja, Linux, VS Code, NiceGUI, Firebase, Keycloak, Power BI

## **LANGUAGES**

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**French:** Fluent

**English:** Professional

**Arabic:** Native