

Alexandru-Rareş Horga

Junior Python Developer

CONTACT

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 github.com/Alexandru244

CAREER FOCUS

Python development
Backend engineering
REST APIs and databases

ABOUT ME

Computer Engineering student with a Python internship at Pentalog (Globant) and practical experience in REST APIs, PostgreSQL and mobile development. Completed an Erasmus study exchange in Portugal and seeking a junior Python or backend development role.

WORK EXPERIENCE

Pentalog Romania (Globant)

Python Developer Intern - PregătIT Python programme

24/02/2026 - 31/03/2026 | Suceava, Romania

- **API development:** Independently built a FastAPI task management API under technical supervision, with Pydantic validation, CRUD operations and workflow rules.
- **Database integration:** Used parameterized PostgreSQL queries through psycopg2, with separate API, business logic and persistence modules.
- **Automated testing:** Wrote 13 API and database tests using unittest and FastAPI TestClient, covering workflows and error handling.
- **Development tooling:** Containerized services with Docker Compose and automated Black formatting with pre-commit.

[Link github.com/Alexandru244/Practica](https://github.com/Alexandru244/Practica)

EDUCATION AND TRAINING

01/10/2023 - CURRENT | Suceava, Romania

Bachelor's studies in Computer Engineering

Ştefan cel Mare University of Suceava

Expected graduation July 2027

Level in EQF / CEC Level 6 (degree in progress)

17/02/2025 - 12/07/2025 | Bragança, Portugal

Erasmus+ study exchange

Bragança Polytechnic University

One semester of international academic mobility.

01/10/2023 - 15/02/2025 | Suceava, Romania

Programmer Analyst qualification

Samuil Isopescu Technical College

Post-secondary programme | Final project: ChessIT

Level in EQF / CEC Level 5

20/04/2026 - 30/04/2026

Entrepreneurial Competences - IT Entrepreneurship

Pentalog Romania (Globant)

- Completed structured training through instructor-led presentations, guided discussions and applied business case studies.
- Developed startup business models and market-entry plans covering customer acquisition, team structures, risk mitigation and business continuity.

PROJECTS

I Am Available

Erasmus academic project | Bragança, Portugal | 2025

Mobile application for sharing availability by role, group, time and physical or virtual location.

- Shared responsibility for Figma design, React Native screens, Firebase integration and Android development in a three-person team.
- Contributed to authentication, group management and recurring availability schedules, with Firestore listeners for live group updates and chat.
- Worked on maps, location radius checks and local availability notifications; used Expo Go for Android development.

Technologies JavaScript, React Native, Expo, Firebase, Cloud Firestore, Redux Toolkit

Link github.com/Alexandru244/i-am-available

ChessIT

Programmer Analyst final project | Backend development

Backend of a web-based chess platform developed by a four-person team.

- Contributed authentication, player data and tournament features through Python and FastAPI REST endpoints.
- Built WebSocket room communication for real-time play and used SQLAlchemy models and Alembic migrations for PostgreSQL persistence.

Technologies Python, FastAPI, PostgreSQL, SQLAlchemy, Alembic, WebSockets

Link github.com/Alexandru244/Chess-Backend

SKILLS

PROGRAMMING LANGUAGES

Python | JavaScript | SQL

BACKEND AND DATABASES

FastAPI | Pydantic | REST APIs | WebSockets | PostgreSQL | psycopg2 | SQLAlchemy | Alembic

MOBILE DEVELOPMENT AND DESIGN

React Native | Expo Go | Firebase Authentication | Cloud Firestore | Redux Toolkit | Figma

TOOLS AND TESTING

Git | GitHub | Docker | Docker Compose | unittest | FastAPI TestClient | Black | pre-commit

LANGUAGE SKILLS

MOTHER TONGUE(S): Romanian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2 Basic user | B1 and B2 Independent user | C1 and C2 Proficient user