

# Backend Developer

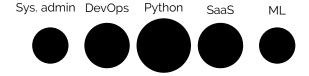
### **ABOUT ME**

Developer from Paris specialised in Python backend programming. Open-source believer and contributor, cybersecurity enthusiast with experience in SaaS development, machine learning, concurrency and shared computing. Familiar with Agile project management.





### SKILLS OVERVIEW



# PERSONAL PROJECT

#### 2025 Transit.sh

Creator and maintainer of an open source real-time file transfer service.

- Leveraging FastAPI's modern ASGI implementation to enable multiple simultaneous transfers at uncapped speeds with minimal system overhead (less than 20% CPU with only 2GB RAM)
- · Architected a horizontally-scalable data chunk forwarding architecture using Redis
- · Developed an event system for synchronisation using a Pub/Sub pattern to prevent race conditions
- Built a WebSocket-based upload client with JavaScript, featuring drag-and-drop interface, real-time progress bars, disconnection detection, error management and exception tracking with Sentry
- · Implemented human-readable temporary link generation system with expiration time

FastAPI / Redis / WebSockets

#### **EXPERIENCE**

sept. 2023 april 2024

#### Full-stack developer (freelance)

Delphlyx.io

Design, development and delivery of a reporting platform for football clubs in developing countries.

- Created responsive data visualization dashboard for teams using Streamlit, with player database, performance metrics, match results and basic analytics
- Engineered an upload system for very large video files running in a different FastAPI worker to avoid overloading the main app, with files deposited into an S3 bucket
- Stored player information and match results as objects on a Firestore NoSQL database
- Designed an admin interface for staff, with overview of the database and status tracking (match created, video uploaded, requires attention etc.)
- Implemented a simple session-based authentication system with different roles, isolation and cooldowns to prevent brute-force attacks

FastAPI / Streamlit / Firestore / S3 / GCP

nov. 2019 june 2023

#### **Backend developer**

**Ignition Program** 

Development of an HR SaaS product serving 20k+ candidates and 500+ companies (team of 6).

- Collaborating with the Product team to design, spec and produce an MVP.
  Worked through the full project lifecycle: from initial concept to production, then improvements roadmap
- · Writing technical specs with front-end devs to ensure the API layout is coherent, efficient and easy to use
- Building the Django REST backend, implementing data validation, serialization, pagination, and caching strategies to serve optimized data payloads to multiple frontend applications

Built complete backend infrastructure for candidate mobile app with 1k daily active users.

- Assisted the front-end in building a multi-step onboarding process by implementing: email verification with Jinja, CV upload to S3, interview scheduling with Calendly and notifications with Celery
- · Built a sponsoring system using M2M database relations for candidate retention
- Wrote a internal library to centralise logic, models and periodic tasks to avoid duplication

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#### Developed recruiter dashboard backend achieving 9+/10 customer satisfaction score.

- Implemented candidate matching algorithm using weighted scoring system based on skills, experience, salary expectations, location and industry preferences
- · Built candidate suggestion system and automated interview scheduling integration
- Developed "hide from company" privacy feature allowing candidates to remain anonymous from specific employers while staying visible to others, or vice versa

#### Led infrastructure modernization and CI/CD implementation.

- Writing unit and integration tests and automating checks using GitHub Actions
- · Maintained Infrastructure-as-Code setup with Ansible playbooks and Docker containerization
- Implemented monitoring tools such as Sentry, Uptime and Flower (Celery)

#### Architected secure SSO implementation handling 1,000+ daily logins.

- Integrated OAuth2 authentication with Google and LinkedIn APIs, implementing secure token management and refresh logic
- · Developped a "login as" feature for staff, allowing direct assistance to clients if needed

Django REST / PostgreSQL / Celery / Ansible / AWS

sep. 2018 jun. 2019

## Backend developer

La Relève

#### Developed a serverless ETL microservice to process HR records from multiple client systems.

- · Built nearly cost-free serverless solution using AWS Lambda with wake-up events for updates
- Implemented data validation and transformation pipelines supporting multiple input formats from three HR providers: Zoho, HubSpot, government agency
- · Designed system using SQS to queue updates for periodic DB ingestion

Django / AWS Lambda / SQS / CloudWatch

# **EDUCATION**

sep. 2015 jun. 2017

# **Mathematics and Computer Science**

Université Pierre et Marie Curie

Advanced coursework in applied mathematics, algorithms, and computational physics.

- Developed physics simulation engines in C++ focusing on particle systems, collision detection, and real-time rendering optimization
- Led team project on cellular automata, creating a zero-player game (very old code!) with emergent behavior patterns
- · Completed advanced coursework in linear algebra, physics, and programming

LANGUAGES

OTHER PROJECTS

**NOTIONS** 

MISC

French - native English - fluent Spanish - rudimentary Image deblocking CNNs macOS security research *Asyncio* queue library JS, CSS C++, ASM LATEX Avalanche rescue cert. Driving license Allowed to work: UK EU

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