

Abdesalem Gueboudj

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PROFESSIONAL SUMMARY

Software Engineer with 6+ years of experience designing and developing secure backend and full-stack applications as freelancer. Proven success in Python and Django web development, blockchain integration, and automation systems. Skilled in building high-performance trading software, secure REST APIs, and scalable architectures. Passionate about cybersecurity, clean code, and system reliability.

TECHNICAL SKILLS

Programming Languages: Python, Kotlin, JavaScript, HTML, CSS

Frameworks & Tools: Django, Flask, FastAPI, Vue.js, Android Studio, Git, Postman

Security & DevOps: Linux, Penetration Testing, WAF, JWT, Docker, Nginx, Apache2, Gunicorn, DigitalOcean, UFW, ZAP, Burp Suite

Databases: MySQL, MariaDB, PostgreSQL

Libraries & Others: Web3, Pandas, NumPy, Selenium, REST APIs, Blockchain Integration, Message brokers, AI fine-tuning, Ollama

WORK EXPERIENCE

Freelance Software Engineer | 2020 – Present

- Designed, developed, and maintained 60+ Python trading systems optimized for high concurrency and zero-downtime operations.
- Built secure, scalable backends using Django and Flask frameworks following OWASP best practices.
- Developed REST APIs and full-stack solutions for clients worldwide, ensuring code quality and maintainability.
- Deployed using Docker, Gunicorn, and Nginx on cloud platforms (mostly Digitalocean).
- Conducted backend penetration testing and post-deployment hardening to mitigate vulnerabilities.

PROJECTS

- **Insurance Management Platform** | Backend Developer | *Django, Mysql, Webhook*
 - Developed a centralized web platform for handling insurance policies, claims processing, and customer data.
 - Implemented complex Role-Based Access Control (RBAC) to ensure data privacy between agents, managers, and admins.

- **Artia Digital Passport (Blockchain based solution)** | *Lead Developer* | *Django REST, Kotlin, Web3, NFC, E-payment*
 - Built a full-stack physical-digital authentication platform for artwork ownership verification using Blockchain technology.
 - Developed a native Android application (Kotlin) to scan NFC tags attached to physical art, verifying authenticity via the blockchain.
 - Secured the backend against manipulation and deployed the infrastructure on cloud.

- **Lupinek Trading SaaS** | Freelance | *Python, Django, REST APIs*
 - Architected a scalable **Copy Trading SaaS platform** allowing users to automatically replicate trades across multiple brokerage platforms in real-time.
 - Engineered a low-latency signal tracking flow using proxies, NATS, in-memory cache to ensure trade execution within milliseconds across different accounts.
 - Integrated multiple exchange APIs to support cross-platform compatibility and portfolio synchronization.

EDUCATION

Master's in Information Systems Security | Saad Dahleb Blida 1 University (Graduated July 2025)

ADDITIONAL STRENGTHS

- **Security-First Development:** Skilled in input validation, threat modeling, and post-pentest hardening.
- **Rapid Prototyping:** Delivered functional MVPs in under one week.
- **Custom Solutions:** Developed tailored software to meet complex client requirements.
- **API & DevOps Fluency:** Managed deployment and server configuration with Docker, Apache2, Nginx, Gunicorn.

LANGUAGES

Arabic – Native | English – Conversational | French – Conversational