RAMI ATOUI

Senior Backend Developer · Python / Django · AWS · ML & NLP

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Open to relocation across Europe — visa sponsorship required (familiar with NL HSM, EU Blue Card and IE CSEP processes); available to relocate within 8 weeks of an offer

PROFESSIONAL SUMMARY

Senior Backend Developer with 5+ years building and operating production systems in Python/Django on AWS. Integrated complex third-party APIs (Enedis — the French national electricity grid operator) and delivered an end-to-end invoicing platform for an electricity supplier, from data ingestion to automated document generation. Led a small development team through refactoring, feature delivery, and CI/CD adoption; migrated backend infrastructure from cPanel to cloud environments. Additional depth in applied ML: fine-tuned BERT models on SageMaker and deployed real-time NLP inference on AWS Lambda. Working languages: English and French.

CORE SKILLS

Backend: Python (Django, Django ORM, DRF, Pandas, Celery), REST API design, Java, PHP/Symfony

Cloud & DevOps: AWS (EC2, ECS, Lambda, SageMaker, EventBridge), Docker & Docker Compose, GitHub Actions CI/CD, Linux, Shell scripting, Scaleway, cPanel, SFTP integrations

Databases: PostgreSQL, MySQL, MongoDB, Redis — SQL & NoSQL schema design

AI / ML: NLP (SpaCy, Transformers, BERT fine-tuning), HuggingFace, PyTorch, ML pipelines, real-time inference

Frontend: JavaScript/TypeScript, React, Angular (working proficiency)

PROFESSIONAL EXPERIENCE

Senior Django Backend Developer | Eneffic Innovation (energy tech, France-focused) *Jun 2023 – Present*

- Integrated Enedis APIs and related French energy services, ensuring secure, reliable data exchange with external providers; handled long-running external calls with threading and result synchronization.
- Designed and shipped a production invoice-generation system for an electricity supplier — data ingestion (JSON/CSV), Pandas-based energy calculations, and automated document generation.
- Led the development team: coordinated bug triage and refactoring of a legacy production application, rebuilt authentication/roles/permissions, and introduced reusable helpers and query annotations for maintainability.
- Migrated backend infrastructure from cPanel to cloud environments; designed staging and production environments across multiple servers and set up CI/CD pipelines for build and deployment automation.
- Built a real-time file-processing pipeline: SFTP server configured to trigger HTTP notifications to a Django backend, paired with a React frontend.
- Automated operations with Python/Shell: SSL certificate renewal and scheduled backups of application data and databases.

DevOps / Full-Stack Developer | Ubiai (NLP annotation platform) *Jul 2021 – May 2023*

- Built Amazon Machine Images for on-premise product deployments using Docker, Django, Redis, and Celery on AWS EC2.
- Fine-tuned pre-trained BERT models on AWS SageMaker (Python, HuggingFace, SpaCy) and orchestrated workflows with AWS EventBridge.
- Deployed real-time ML inference services with AWS Lambda and Docker; exposed API interfaces enabling customers to automate annotation workflows.
- Mentored a junior intern on an ML project, providing architectural and code-level guidance.

Full-Stack Developer (intern, then part-time) | Sentidigital *Feb 2021 – Sep 2021*

- Built a social-media sentiment-analysis dashboard (Django, HuggingFace, PyTorch, Angular, PostgreSQL, MongoDB) and deployed it on AWS ECS clusters.
- Supervised three interns maintaining and enhancing existing projects; ran code reviews and bug fixes.

Web Developer Intern | *Jan 2019 – Jun 2020*

- Developed a responsive e-commerce website with Symfony/PHP, Angular, Bootstrap, jQuery, and AJAX.

SELECTED PROJECTS

- **Electricity Invoicing Platform —** end-to-end invoicing for an energy supplier: Enedis API integration, complex business calculations, automated billing documents.
- **Text-to-Image Model Deployment —** production deployment via HuggingFace Inference API, optimized for scalability in high-traffic environments.
- **Escrow Service Backend —** secure transaction backend with monitoring, multi-stage authentication, and full audit logging.
- **Laundry Shop Mobile App Backend —** scheduling, service tracking, payment processing, and admin dashboards.

EDUCATION

Master's Degree, Computer Science — Technologies & Data Science *Oct 2020 – Mar 2022*
Institut Supérieur d'Informatique, Mahdia, Tunisia

Bachelor's Degree, Applied Computer Science — Computer Systems *Oct 2016 – Jul 2020*
Institut Supérieur d'Informatique, Mahdia, Tunisia

LANGUAGES

Arabic (native) · English (professional working proficiency) · French (professional working proficiency)