

JEAN-EUDES ASSOGBA

Backend Engineer (Python/Django) | Scalable APIs and AI Integration

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github.com/JeanEudes-dev | [Portfolio](#) | [LinkedIn](#)

SUMMARY

Backend engineer with 4+ years building production Django systems. Sole backend owner on multiple products, responsible for architecture decisions, schema design, test coverage, deployment, uptime, and performance. My systems serve thousands of users in production. I write tested, documented code and treat monitoring and reliability as first-class concerns. Fluent in English and French. Available immediately.

BACKEND FOCUS

- PostgreSQL schema design for high-traffic systems, composite indexing, query analysis with EXPLAIN, and migration planning
- RESTful API design with versioning, pagination, rate limiting, idempotent endpoints, and consistent error contracts
- Automated testing with pytest (unit + integration), factory-based fixtures, and CI-enforced coverage gates
- Caching strategy design with Redis for session data, query results, and rate limiter state
- Background task orchestration with Celery and Redis, including retry policies and dead-letter handling
- Structured logging, error tracking (Sentry), and health-check endpoints for production observability
- AI service integration with structured output parsing, validation layers, and multi-provider fallback routing
- Linux server ops, Nginx reverse proxy, SSL, Docker containerization, and CI/CD with GitHub Actions

PROFESSIONAL EXPERIENCE

AI Backend Engineer | [RenoSmarterAI](#) Feb 2024 - Aug 2024

Remote (Canada-based) | [renosmarter.ai](#)

- Rebuilt legacy renovation platform into modular backend, separating AI services from core business logic and reducing codebase complexity by 45%
- Designed pricing engine routing requests through GPT-4o, Gemini, and Pinecone vector search, with deterministic validation on every AI response before it reaches the client
- Improved pricing accuracy by 81% through prompt restructuring, few-shot calibration, and backend checks that catch and correct malformed outputs
- Increased user task completion by 40% after redesigning session persistence, progress tracking, and the recommendation pipeline
- Built retry logic, circuit breakers, and fallback routing across AI providers, keeping service availability above 99%
- Wrote integration test suite covering all pricing and AI workflow paths, enforced through CI before every deploy

Backend Engineer (Founding Engineer) | [BrollyHub](#) Mar 2023 - Present

Remote | [academia.brollyhub.com](#)

- Sole backend owner: designed Django REST backend for multi-role marketplace handling transactional workflows across researcher, expert, and admin permission levels, serving 500+ active users and 15k+ API requests per day
- Engineered PostgreSQL schema with composite indexes, Redis caching for session and query data, and rewrote slow queries, cutting average API response time by 60% under 200+ concurrent sessions
- Implemented WebSocket layer handling 100+ concurrent connections for real-time messaging, notification delivery, and calendar synchronization
- Built service layer integrating LLM calls with backend validation for matching and recommendation workflows
- Defined clear domain boundaries between matching, billing, messaging, and AI modules with explicit transaction management and backward-compatible API versioning across releases
- Set up structured logging, Sentry error tracking, and health-check endpoints for production monitoring

- Deployed on Google Cloud with Docker containers, automated CI/CD pipeline, and zero-downtime deploy strategy

IT Staff and Software Engineer | [Rauf Denktas University](#) Jun 2023 - Present

Northern Cyprus | [rdu.edu.tr](#)

- Led backend development of the official university platform and internal systems handling 2,000+ daily active users and 50k+ monthly page views
- Designed RBAC system with 5 permission levels covering academic, administrative, and registrar workflows
- Restructured database queries and added targeted indexes, cutting page load times by 55% on the busiest portals
- Managed Ubuntu production servers: Nginx config, SSL, automated backups, uptime monitoring, and scheduled maintenance windows

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Backend: Django, Django REST Framework, Node.js, Celery, Redis, pytest, REST APIs, WebSockets

Databases: PostgreSQL (schema design, indexing, migrations, EXPLAIN), MySQL, Supabase

AI Integration: OpenAI GPT-4o, Google Gemini, Pinecone, LangChain, RAG pipelines

Observability: Sentry, structured logging, health checks, CI test gates, uptime monitoring

Frontend: React, Next.js, TypeScript, Tailwind CSS

Infrastructure: AWS (EC2, S3), Google Cloud, Docker, Linux, Nginx, GitHub Actions, CI/CD

PRODUCTION SYSTEMS

BrollyHub Academia - Multi-role expert marketplace with real-time communication and transactional workflows

[academia.brollyhub.com](#)

Django REST, React, PostgreSQL, WebSockets, Google Cloud

RenoSmarterAI - AI renovation platform with multi-step cost estimation and vector-based material matching

[renosmarter.ai](#)

Django REST, React TypeScript, Pinecone, GPT-4o, Gemini

Rauf Denktas University - University platform with student/faculty portals and content management

[rdu.edu.tr](#)

Django, Next.js, PostgreSQL, Nginx

EDUCATION

MSc in Software Engineering - Rauf Denktas University, Northern Cyprus Ongoing

BSc in Software Engineering - Rauf Denktas University | CGPA: 3.95/3.95 2019 - 2023

ADDITIONAL

- Languages: Fluent in English and French
- Availability: Immediate. Open to remote, hybrid, or relocation with visa sponsorship.
- Freelance track record: 25+ production web applications across e-commerce, CMS, and ERP domains (2021 to present)