

Donovan Agustín Alvarez

Backend Developer | Python | FastAPI | REST APIs

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Available for remote work | UTC-6

PROFESSIONAL PROFILE

Self-taught backend developer focused on the design and implementation of REST APIs with Python. I have developed systems with authentication, RBAC, relational databases, payments, webhooks, object storage, and AI services. I work with layered architectures, Docker, and automated testing, with the ability to independently analyze, debug, and extend complex systems.

TECHNICAL STACK

Backend: Python, FastAPI, Flask, Pydantic, SQLAlchemy 2.x, Alembic

Frontend: React, TypeScript, Vite, React Router, TanStack Query, Zustand

Data: PostgreSQL, SQLite, Redis

Auth / Security: JWT (access and refresh tokens), HTTP-only cookies, bcrypt, RBAC, rate limiting

Integrations: Stripe, AWS S3, Resend, Gemini, OpenRouter API

Infrastructure: Docker, Docker Compose, GitHub Actions, Linux, Git

PROJECTS

CyberWare - Full-stack e-commerce platform

React | TypeScript | FastAPI | PostgreSQL | Redis | Docker Compose

- Complete e-commerce application with catalog, search, cart, orders, inventory control, and a separate administrative console.
- JWT authentication via cookies, access and refresh tokens, session blocking, and RBAC for users, moderators, and administrators.
- Test payments with Stripe, signed webhooks, refund requests, synchronization of external refunds, restock, and transactional emails.
- AWS S3 integration for images, Resend for email, Redis for rate limiting, and Gemini for semantic search and chatbot.
- Reproducible Full-Local environment with Docker Compose, Alembic migrations, administrative auditing, and controlled degradation of optional services.

Repository: github.com/Donovan-Nudrak/CyberWare

Task Manager API

FastAPI | PostgreSQL | SQLAlchemy | Alembic | Docker | GitHub Actions

- JWT authentication and team roles with an RBAC hierarchy from viewer to owner.
- Layered architecture with routers, services, and repositories; soft delete and entity auditing.
- Pagination, filters, health checks, readiness probes, CI, and deployment with Docker.

Repository: https://github.com/Donovan-Nudrak/Task_Manager.git

ADDITIONAL PROJECTS

RAG Core Service

FastAPI | OpenRouter API | SQLite | Pydantic

- Modular Retrieval-Augmented Generation service with semantic retrieval and an LLM via OpenRouter API.
- External embeddings system and extensible architecture for replacing providers and components.

Repository: https://github.com/Donovan-Nudrak/RAG_Core_Service.git

Ecommerce API

FastAPI | PostgreSQL | Redis | SQLAlchemy | Docker | SlowAPI

- API with JWT authentication, catalog, cart, orders, stock control, and an administrative panel.
- Rate limiting, CORS, OpenAPI documentation, and Docker environment.

Repository: https://github.com/Donovan-Nudrak/E_commerce.git

Other backend projects

- Jobs API: job posting management with FastAPI, PostgreSQL, authentication, and role-based access control.
- Notes App API: Flask application with sessions, personal and shared notes, per-user permissions, and hashing with Werkzeug.

EDUCATION AND CERTIFICATIONS

Full Stack Open - University of Helsinki

July 2026 | 5 ECTS

Full Stack Open course completion certificate. [View credential](#)

Backend Development with Python - Self-taught

November 2025 - Present

- Structured self-directed learning in REST API design, SQLAlchemy, layered architecture, and production tools.
- Reverse engineering methodology for analyzing complex systems, patterns, and design decisions.

TECHNICAL APPROACH

I design modular backend systems with clear separation between transport, business logic, and data access. I prioritize maintainability, explicit validation, operation traceability, and predictable behavior when external services fail.