Jack Duck

🐍 Regular Python Developer

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Backend-focused Python developer *building APIs and services that stay readable and fast.*

✅ *Designs FastAPI/Django backends with typing, linting, and pragmatic tests.*

✅ *Tunes SQL/Redis workloads for predictable performance at scale.*

✅ *Ships API integrations and async workers with clear monitoring in place.*

FastAPI **Django** **Asyncio**

PostgreSQL

Designed with cre8ive.cv

🛠 Skills & Languages

Working Knowledge
Python   FastAPI & Django
PostgreSQL   RESTful API Design
Testing (Pytest, Unittest)   Docker
Git (GitFlow)   Linux
Clean Code & SOLID principles   Redis

Basic Skills
Cloud Services (AWS/Azure)
CI/CD   Kubernetes
NoSQL (MongoDB, Elasticsearch)
Microservices Architecture
Frontend Basics

Languages
English (C1)
German (B1)

💼 Experience

Mid Python Developer (DuckDuckGo)   *10.2023 - Present*

- Architecting privacy-focused backend modules using FastAPI and Python 3.12, ensuring zero-trace data processing.
- Optimizing high-concurrency search index crawlers, reducing memory overhead by 30% through advanced Asyncio implementations.
- Developing automated privacy-compliance auditing tools that scan internal microservices for data leakage.
- Enhancing search relevance algorithms by refactoring legacy logic into modular, testable components using SOLID principles.

Junior/Regular Python Developer (QuackOverflow Solutions)   *12.2021 - 09.2023*

- Built and maintained a high-traffic community portal using Django, focusing on optimized database queries and caching.
- Developed custom internal tools for automated answer-ranking and duplicate question detection using Python and NLP libraries.
- Streamlined developer onboarding by creating comprehensive documentation and automated environment setup scripts.

Python Intern (QuackOverflow Solutions)   *06.2021 - 08.2021*

- Assisted in building small Django features and writing unit tests under mentor guidance.
- Documented environment setup steps and automated local onboarding scripts.
- Performed basic query optimizations and log reviews during production incidents.

🚀 Side Projects

Mallard Market Watch
A high-performance data pipeline and dashboard that scrapes and analyzes real-time breadcrumb inflation rates across global pond-side vendors.

Technologies: Python, FastAPI, BeautifulSoup, PostgreSQL, Pandas
Link: github.com/jackduckdev/mallard-market-watch

FeatherID Vision
An edge-computing tool utilizing Computer Vision to distinguish between friendly bread-donors and suspicious geese at a 98% accuracy rate.

Technologies: OpenCV, PyTorch, Python CLI (Typer), Linux (Raspberry Pi)

QuackQueue Monitor
Dashboard and alerting for Celery task queues with metrics on throughput, lag, and retries.

Technologies: Celery, Redis, FastAPI, Prometheus, Grafana
Link: github.com/jackduckdev/quackqueue-monitor

PondScrape CLI
CLI toolkit for scraping and normalizing marketplace listings with pluggable parsers and rate limiting.

Technologies: Python, Typer, BeautifulSoup, SQLite
Link: github.com/jackduckdev/pondscrape-cli

🎓 Education

Software Architecture & Scalable Systems (Postgraduate studies)   *10.2022 - 07.2023*
Quackow University of Science and Technology

Computer Science & Pond Engineering (Bachelor of Science)   *10.2017 - 02.2021*
Mallard Institute of Technology (MIT)