



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

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

PondScape CLI

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

Technologies: Python, Typer, BeautifulSoup, SQLite
Link: github.com/jackduckdev/pondscape-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)

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).

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