



# Jack Duck

## Regular Python Developer

✉ jack@duck.dev

📞 +00 123 456 789

🔗 /in/jack-duck

👤 /jackduckdev

**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](https://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](https://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](https://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

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