Jack Duck

Regular Python Developer

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Python Developer | 4+ Years Experience

Dynamic and detail-oriented Developer specializing in **designing, developing, and deploying** scalable web applications and microservices.

Django   **FastAPI**   **SOLID Principles**   **Agile/Scrum**

✓ Proven track record of **optimizing database performance**.

✓ Expert in **integrating third-party APIs** and microservices orchestration.

✓ Focused on writing **clean, maintainable code** that scales.

Experience

Mid Python Developer   *10.2023 - Present*
DuckDuckGo

- 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   *12.2021 - 09.2023*
QuackOverflow Solutions

- 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.

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)

Skills & Languages

Working Knowledge

Python (Asyncio, Decorators, Typing)

FastAPI & Django

PostgreSQL & SQL Optimization

RESTful API Design

Testing (Pytest, Unittest)

Docker & Docker Compose

Git (GitFlow)   Linux (Bash scripting)

Clean Code & SOLID principles

Redis & Task Queues (Celery)

Basic Skills

Cloud Services (AWS/Azure)

CI/CD (GitHub Actions/GitLab CI)

Kubernetes (K8s)

NoSQL (MongoDB, Elasticsearch)

Microservices Architecture

Frontend Basics (React/HTML/CSS)

Languages

English (C1)

German (B1)

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)

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