

# Freelance Software Engineer: Python, SQL, REST-Apis, Server automation

*Limited version – Full CV available upon request.*

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## Profile

- Web application and open-source software specialist with **13 years of experience** in software engineering and architecture.
  - Expertise in **Python, FastAPI, Django, SQL databases, and server automation**.
  - Strong background in **CI/CD automation (Kubernetes, Helm, Ansible)** on GitLab, GitHub, cloud, and self-hosted environments.
  - **International experience** across Australia, Vietnam, and Singapore.
  - B.Sc. in Online Media (Hochschule Furtwangen), specializing in web technologies.
  - **Top 6% contributor** on Stack Overflow ([Profile available]).
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## Contact Details

- **Phone:** +49 8421 6059898
  - **Email:** [info@aitomatisch.de](mailto:info@aitomatisch.de)
  - **Location:** Ingolstadt, Bavaria, Germany (Halfway between Munich and Nuremberg)
  - **Availability:** Open to full-time/part-time, remote, or hybrid roles within Germany. Mobile by car.
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## Project History

### Cloud Application for Energy Management Systems (Dec 2024 – Present)

- **Role:** Lead Cloud Engineer
- **Scope:** Development, architecture, and scaling of a Django web project for gRPC data processing, analysis, and control of thousands of devices.
- **Technologies:** Python, Django, PostgreSQL, Kubernetes, Docker, Ansible, gRPC, Helm, HTML, CSS.

### Rest APIs on Azure Cloud for Vehicle Document Processing/federal Subsidies (Feb 2022 – Nov 2024)

- **Role:** Tech Lead & Solution Architect
- **Scope:** Headed software engineering and IT team, developed scalable microservice architecture, led B2B client engagement, and cross-functional coordination.
- **Technologies:** Python, FastAPI, SQLAlchemy, MariaDB, Azure (Active Directory, Blob Storage, Functions, App Registry), Vue.js.
- **Key Achievements:**
  - Integrated solutions with **Volkswagen, Elli, ChargePoint, Carbonify, e3dc**, and large German cities (e.g., Stadtwerke Bielefeld/Mainz/Münster).
  - Architected two cloud-based **FastAPI** services for automated document OCR and consumption data validation.
  - Processed **70,000+ applications**, securing **€25M+ in funding** for customers.
  - Developed a near **cost-neutral** bulk payout and billing system for tens of thousands of transactions.

### Django-based ERP & eCommerce Systems with 6-Digit Daily Revenue (Nov 2015 – Jul 2021)

- **Role:** Freelance Web Engineer
- **Scope:** Developed browser-based ERP & eCommerce systems, managed servers, and led business

intelligence reporting.

- **Technologies:** Python, Django/DRF, HTML, CSS, jQuery, MySQL, Docker, Ansible.
- **Key Achievements:**
  - **Optimized database queries**, reducing page load time by **90%**.
  - **Automated server configuration**, cutting deployment time by **80%**.

#### **Time Management Tool for Car Prototyping (Oct 2015 – Jun 2016)**

- **Role:** Freelance Team Lead / Project Manager
- **Scope:** Led a team of 5 developers, coordinated with clients, managed Agile sprints, and ensured user training.
- **Technologies:** Python, Django, Angular, HTML, CSS, MySQL, Docker.
- **Key Achievements:**
  - Delivered rapid feature iterations despite unpredictable developer availability.
  - Completed project **under budget and within schedule**.

#### **Signage & Device Management for Set-Top Boxes (Oct 2013 – Apr 2015)**

- **Role:** Freelance Engineer
- **Scope:** Developed IPTV middleware, managed live TV transcoding, and handled large-scale device control.
- **Technologies:** Python, Django, HTML, CSS, Angular, Backbone.js, MySQL, Bash.
- **Key Achievements:**
  - **Integrated REST APIs** to support devices from various manufacturers.
  - Delivered a **successful product demo** within 14 days despite incomplete source code.

#### **Medical Staff & Expense Planning Tool (Oct 2012 – Sep 2013)**

- **Role:** Freelance Engineer
- **Scope:** Developed a Django-based application for healthcare staffing, expense tracking, and reporting for **10,000+ employees**.
- **Technologies:** Python, Django, HTML, CSS, jQuery, MySQL, Bash.

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## **Education**

- **B.Sc. in Online Media (2006 - 2010)** – Hochschule Furtwangen University, Germany
- Focus: Web applications, software project management, intercultural communication, business studies.
- **Exchange Semester:** University of Macau, China (2009 - 2010)
- **Advanced Python (Grade A)** – University of Illinois, USA (2012)

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## **Technical Skills**

### **Programming**

- **Python (13 yrs)**, Bash (8 yrs), JavaScript (8 yrs).

### **Frameworks / Libraries**

- **Django (13 yrs)**, FastAPI (4 yrs), SQLAlchemy (6 yrs), Vue.js (2 yrs), Angular (2 yrs), jQuery (6 yrs).

### **Frontend / UI**

- **HTML (8 yrs)**, **CSS (8 yrs)**, **Jinja2 (7 yrs)**, **HTMX (1 yr)**.

## Databases

- **MySQL/MariaDB (13 yrs), PostgreSQL/PostGIS (4 yrs), SQLite (4 yrs).**

## DevOps & Infrastructure

- **CI/CD Pipelines:** GitHub (4 yrs), GitLab (6 yrs).
- **Automation:** Ansible (6 yrs), Helm (2 yrs), Kubernetes (2 yrs), Docker (5 yrs).
- **Cloud:** Azure (4 yrs) – Functions, Active Directory, Blob Storage, Token Authentication.

## Project Management

- **Team Leadership (4 yrs), Jira (6 yrs), B2B Communication (4 yrs), Specification Design (4 yrs).**

## Communication Protocols

- **Ajax (8 yrs), WebSockets (1 yr), gRPC (1 yr).**

## Machine Learning & Data Analysis

- **Keras (1 yr), PaddleOCR (1 yr), Pandas (4 yrs), NumPy (4 yrs).**

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## Languages

- **German:** Native
  - **English:** Fluent (IELTS Academic Band 8/9)
  - **Spanish:** Advanced (B2)
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