Former SPS Programmer with 2+ years of experience in industrial automation transitioning into backend development. Recently completed a backend-focused Software Engineering program at Masterschool with hands-on projects using Python, Django, and SQL. Eager to contribute by designing clean, scalable APIs and collaborating effectively within agile development teams.

Nico Wittemann

Junior Backend Developer

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Profiles

LinkedIn   GitHub   Personal Portfolio

Technical Skills

Backend:
Python, Django, Flask, OOP, RESTful APIs

Databases & Queries:
PostgreSQL, raw SQL, SQLAlchemy (ORM)

Tools & Testing:
Git, GitHub, Swagger, Postman, pytest, Render

Soft Skills

Analytical mindset

Hands-on & proactive

Fast & focused learner

Collaborative team player

Languages

German
Native

English
C1

Experience

DB Matik AG   **Jun 2022 - May 2024**
SPS-Programmer   Roding

- **Developed and optimized** PLC software for industrial automation projects, from setup to commissioning. **Delivered 10+** custom systems for clients like **ZEISS** and **IEE**.
- **Designed** system logic based on technical specifications and **coordinated over 500 input/output signals** with a focus on reliability and clear data flow.
- **Collaborated** with commissioning engineers during live system tests to validate and refine control logic, **reducing post-deployment issues by approximately 15%**.
- **Created** HMI interfaces and extended them with **C#** to implement a customer-specific **CSV export**, **improving error tracking** in two production systems.

Gernep GmbH   **Feb 2022 - Jun 2022**
SPS-Programmer   Barbing

- **Adapted** existing PLC programs for labeling and packaging machines, handling I/O configuration and adjustments to standard control logic for **5+ production systems**.
- **Supported troubleshooting and testing** during commissioning and maintenance of **10+ labeling systems** at customer sites.

Krones AG   **Sep 2020 - Feb 2022**
Electronics Technician for Industrial Engineering   Neutraubling

- **Supported commissioning** of industrial bottling and packaging systems in **20+ customer projects**, focusing on sensor setup, signal testing, and system integration.
- **Handled wiring and configuration** during pre-assembly and factory acceptance, working closely with **cross-functional teams** to ensure stable system operation.

Education

Masterschool   **Sep 2024 - Oct 2025**
Software Engineering   Training Program

- Specialized in backend development with **Python, Django, PostgreSQL**, and **RESTful API design.**
- Built several backend-focused applications using **Django** and **Flask**, implementing features like user authentication, **CRUD** functionality, **database modeling**, and **external API** integration.
- **Daily hands-on practice** through live coding sessions, mentoring, and code reviews.

Dr. Eckert Akademie   **Sep 2019 – Feb 2022**
Electrical Engineering   State-Certified Technician

- Focus on automation engineering, PLC systems, industrial electronics, and communication networks (e.g. Profinet, Ethernet).

Krones AG   **Sep 2017 – Sep 2020**
Electronics Technician for Industrial Engineering   Apprenticeship

Projects

E-Commerce Backend API   **Mar 2025 - May 2025**
Project Link

- Developed a **Django REST API** for custom PC configuration with user authentication, product catalog, and order management and **deployed** it to **Render**.
- Integrated **GPT-4o API** to generate full PC builds based on user input (e.g. budget, purpose) **using real-time database filtering.**
- **Automated data integration** from **CSV**: Parsed and filtered PC component data based on defined criteria and **imported it into a PostgreSQL database**.

Movie Webapp   **Jan 2025**
Project Link

- Built a Flask web app allowing users to search for movies via the **OMDb API** and save favorites to a **local database.**
- Practiced routing, API consumption, and CRUD operations using **Flask** and **SQLite.**