



# Bartosz Sławecki

## Python Developer

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With 2 years of professional experience in delivering software developed in Python, I offer the skills and knowledge essential for debugging, extending and improving growing codebases.

I am familiar with **Django**, **Flask** and **FastAPI** web development frameworks. Every application processes data—my expertise includes **data processing and validation** libraries: **attrs**, **pydantic v2**, **protobuf**. In order to persist data, I am most likely to use **ORMs that best fit business requirements**, most often **SQLAlchemy**. During the process of implementing software, I leverage **unit testing libraries**, usually **pytest**. Performance also matters—and **memory profiling technologies**, **cProfile** & **Scalene**, are very often my choice. I value maintainable code that meets standards: **Ruff**, **coverage**, **mypy** and **pyright** are always available in my Python virtual environments. **CI/CD/dependency management tools** (**Poetry**, **poe** task runner, **pre-commit**, **GitHub Actions**) help me develop and integrate my projects in a consistent and convenient way. I am also experienced with **MongoDB**, **Docker**, **Git**, **Jira**, **Bash**, **SQL**, **HTML**, **CSS**, **TS** (React).

So far, I have implemented:

- **general-purpose libraries** that boost software development (including **configzen**, **proxyvars**),
- **bots and scripts** for automating production processes (**skeleton**, **autorefine** )
- **multi-purpose computer programs** (including **Discord** & **YouTube** bots).

## PROJECTS

### **configzen**

04/2023 – present

A Python library that aims to facilitate the creation and maintenance of structured configurations with runtime data validation, typing and advanced scope-based management.

### **proxyvars**

06/2023 – present

A general-purpose Python library allowing to create different kinds of proxy objects. Inspired by **werkzeug** that implements the **LocalProxy** class, a basic **Flask** library component.

### **skeleton**

11/2023 – present

A generic Python project scaffolding that brings in **SCM** approach to codebase maintenance and centralizes the toolset used in a number of projects. Technologies used involve **Redis**, **pipx** and **Poetry**. Written in **Shell** (**Bash** and **sh-compatible**), powered by **copier** .

## COMMERCIAL EXPERIENCE

### **Discord Community Bot**

Client: „A po co MI ta MATMA?”, a Polish educational YouTube.

03/2023 – 05/2023

- An **application in Flask** to serve files and redirect new community members to the **Discord** server.
- A bot that serves the server via the **Discord API** (built on **hikari+crescent** and the **ORM** library by **encode**, the authors of **Django REST framework**).
- An application that interacts with live chat on **YouTube** and an implementation of a subscriber for **PUSH** notifications according to the **Google's PubSubHubbub 4.0** specification.

### **Python Tutoring**

Client: 15+ Computer Science students

08/2021 – present

I have personally helped Computer Science students prepare to pass their Python exams with flying colors. The knowledge required included Python's **OOP** (Object-Oriented Paradigm), **parallelism** and **optimization** techniques with **multiprocessing** / **threading** / **asyncio** / **concurrent.futures**, as well as basic unit testing with **pytest** and **unittest**.

### **Multimedia Inserts**

Client: **TVP** (Polish Television)

07/2023 – 11/2023

I have made **fake operational systems** using **OS.js**, **Bootstrap-based websites** and **Flutter-based mobile applications** that were designed to resemble those widely used in our everyday lives. The inserts play their role in a new TV series „**Profilierka**” produced by **TVP**.

## EDUCATION

### **Computer Science (Cloud Applications and Systems Engineer)**

DSW University of Lower Silesia

2023 – 2027 | Wrocław, Poland

## LANGUAGES

**English** (B2/C1) • **Polish** (Native)

*I agree to the processing of personal data provided in this document for realizing 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).*