# 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** among **SQLAlchemy**, Tortoise, encode ORM or PonyORM. 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**, **pylint**, **coverage**, **mypy** and **pylance** are always available in my Python virtual environments. **CI/CD tools** (**poetry**, nox, pre-commit, GitHub Actions) help me develop and integrate my projects in a consistent and convenient way.
I am also experienced with **Git**, **Jira**, **Bash**, **SQL**, **HTML**, **CSS** and **JS**.

So far, I have implemented:

- **general-purpose libraries** that boost software development (including configzen, proxyvars),
- **bots and scripts** for automating production processes,
- **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.

## COMMERCIAL EXPERIENCE

**Discord Community Bot**
Client: „A po co MI ta MATMA?”, a Polish educational YouTuber.
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 „Profilerka” produced by TVP.

## LANGUAGES

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

## EDUCATION

**Computer Science (Cloud Applications and Systems Engineer)**
DSW University of Lower Silesia
2023 – 2027 | Wrocław, Poland

*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).*