



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 **Docker**, **Git**, **Jira**, **Bash**, **SQL**, **HTML**, **CSS**, **TS** and **JS** (mainly **React**).

So far, I have implemented:

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

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