

# Bartosz Sławewski

## Python Developer

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Passionate software developer with proven practical knowledge of Python and code quality assurance. Life-long learner inspired by inventive approaches to solving problems. Enthusiastic teacher, endorsed for the ability to convey specialist knowledge to beginners. Trusted by maintainers of some prominent open source projects critical for the IT industry, including [Poetry](#) .

### 🧠 Technical Knowledge

**Domains:** Automation and scripting, Code quality assurance, Web services, Education

**Python:** 3.x, FastAPI, Flask, Django, SQLAlchemy, Pydantic

**Other Languages:** Bash, JavaScript, TypeScript, Dart, SQL

**Containerization:** Docker, Kubernetes (basics)

**Cloud:** AWS (basics), GCP (basics)

**Databases:** SQL, PostgreSQL, SQLite, Redis, MongoDB

**Operating Systems:** Linux, Windows, FreeBSD

### 📁 Projects

#### **skeleton (author)** [🔗](#)

A Python project scaffolding with various SCM and CI/CD automations.

Inspired by [the skeleton project](#) of Jason R. Coombs [🔗](#), to which I also contributed.

- Automated the CI/CD processes in all of my Python library projects
- Developed a Bash script Jinja template for managing skeleton upgrades
- Contributed [several new ideas](#) [🔗](#) to [copier](#) [🔗](#), the engine of skeleton

#### **configzen (author)** [🔗](#)

A library to validate and edit configurations with Pydantic. Available on PyPI as "configzen".

- Designed a library for reading and editing configurations within Pydantic models
- Created built-in drivers for processing of JSON, Plist, YAML and TOML (last two in a style-preserving manner)
- Introduced a layer of abstraction allowing to operate on file streams both synchronously and asynchronously

#### **cleo (contributor, maintainer since January 2024)** [🔗](#)

A CLI framework that powers Poetry—a famous project dependency manager, build backend and much more.

- [Co-refactored the entire codebase](#) [🔗](#)
- Assigned to create a command-line argument parser for the Poetry CLI

#### **proxyvars (author)** [🔗](#)

Proxy objects inspired by Werkzeug local proxies. Available on PyPI as "proxyvars".

- Invented and implemented the underlying mechanism and tests
- Adopted in a Discord bot for the aforementioned YouTuber

#### **runtime\_generics (author)** [🔗](#)

A library that facilitates reusing type arguments for generic types at runtime. Available on PyPI as "runtime-generics", used by "configzen".

- Implemented and documented the underlying idea as well as tests
- Practiced TDD for covariance and contravariance runtime checks

#### **pip-run (contributor)** [🔗](#)




Dynamic dependency loader for creating ephemeral virtual environments

- [Assigned to design and implement in-memory installation mode](#) [🔗](#)

## Professional Experience

### Artur Byczkowski MATEMATYKA

*Freelance Python Developer*

- Initiated a long-lasting cooperation with a popular YouTuber [@apocomitamatma](#)  with 100k+ subscribers
- Designed, created, and estimated costs & delivery time of a full-fledged Discord bot moderating an online community of over 2.7k+ people
- Created and deployed a Flask website within [Phusion Passenger](#) 
- Designed and estimated costs of a modern website currently being built with FastAPI and Next.js
- Recruited the community moderation team and taught necessary skills
- Created numerous YouTube API integrations
- Implemented a [Google PubSubHubbub 4.0](#)  subscriber
- Developed a tool for bulk substitutions in YouTube video descriptions
- Automated the creation of YouTube search tags for over 500 videos using NLP technologies (including nltk, Morfeusz2, ConcraftPL and TernoPL)

### infoShare Academy

*Technical Trainer (Python Bootcamp)*

- Illustrated and led 4 presentations on the Python Object-Oriented Paradigm
- Conducted Q&A sessions regarding the aforementioned presentations

### TVP (Polish Television)

*Multimedia Inserts Developer*

- Created and deployed an offline in-browser fake OS PWA built with OS.js
- Implemented and installed a fake phone call app in Flutter. The application used the phone's proximity sensor to turn off the screen when the phone was held to the ear
- Designed and created 6 different static websites with Bootstrap
- Estimated delivery time & costs of the project

## Education

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

DSW University of Lower Silesia

present  
Wrocław, Poland

## Languages

English (B2) • Polish (Native)

## Credentials

### Invitation to the Finals of the National Programming Competition "Gigathon"

15 Dec 2023

*Giganci Programowania Sp. z o.o.*

Qualified for the finals with remarkably high performance:

- Got 100% points for the 1st stage knowledge quiz,
- Got 100% points for the 2nd stage knowledge quiz,
- Passed the 2nd stage after submitting the projects.

The finals are scheduled to take place on the 3rd of February, 2024.

## Consent

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).