

# Bartosz Sławecki

## Python Developer

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### PROFILE

Passionate expert with deep knowledge of Python (3 years of experience) and code quality assurance. Life-long learner inspired by inventive approaches to solving problems. Appreciated teacher, endorsed for his ability to convey specialist knowledge to beginners. Active, motivated and creative open-source software contributor. Supported and trusted by some prominent figures of the IT industry, including [Poetry](#) .

### EXPERTISE

**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

### PROFESSIONAL EXPERIENCE

#### Freelance Python Developer

03/2023 – present

Artur Byczkowski MATEMATYKA

- 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 involved them in
- Created numerous YouTube API integrations
- Implemented a [the 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 TermoPL)

#### Technical Trainer (Python Bootcamp)

12/2023 – present

infoShare Academy

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

#### Multimedia Inserts Developer

08/2023 – 11/2023

TVP (Polish Television)

- 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

### PROJECTS

#### skeleton (author)

11/2023 – present

Implemented 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 my Python projects, including configzen, autorefine, proxyvars, runtime\_generics, class\_singledispatch and many more
- Developed a Bash script Jinja template for managing skeleton upgrades

- Contributed [several new ideas](#) to [copier](#), the engine of skeleton

#### **configzen (author)**

04/2023 – present

Invented and created 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)**

08/2023 – present

Invited to maintain a CLI framework that powers Poetry—a famous and opinionated 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)**

07/2023 – present

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)**

10/2023 – present

Invented and implemented a library that facilitates reusing type arguments for generic types at runtime. Available on PyPI as ``runtime-generics``.

- Adopted the mentioned skeleton tool to automate the project CI/CD management
- Implemented and documented the underlying idea as well as tests
- Practiced TDD for covariance and contravariance runtime checks
- Adopted in the previously mentioned project ``configzen``

## EDUCATION

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

2023 – 2027

DSW University of Lower Silesia

Wrocław, Poland

## LANGUAGES

### **English**

B2/C1

### **Polish**

Native

## CREDENTIALS

### **Invitation to the Finals of the National Programming Competition**

15/12/2023

#### **"Gigathon"**

Giganci Programowania Sp. z o.o.

Qualified for the finals for 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).