

Bartosz Sławecki

Python Developer

✉ bartoszpiotrslawecki@gmail.com ☎ +48 535 950 567 📍 Wrocław, Poland 🌐 bswck

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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, Web services, Collaboration, Education, Code Quality Assurance, Developer tools, Testing

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

Containerization: Docker, Kubernetes (basics)

Cloud: AWS (basics), GCP (basics)

CI/CD: GitHub Actions

Databases: SQL, PostgreSQL, SQLite, Redis, MongoDB

Web: HTML, CSS, Ajax, JSON, jQuery, XML, XPath

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

Testing: Unit testing, Coverage measurement

Operating Systems: Linux, Windows, FreeBSD

PROFESSIONAL EXPERIENCE

Freelance Python Developer

03/2023 – present

Artur Byczkowski MATEMATYKA

- Began 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](#) [🔗]) for hosting files and short URLs associated with their brand.
- Designed and estimated costs of a modern website, currently being built with FastAPI and Next.js
- Recruited the moderation team for their online community and taught them the required technical skills
- Created numerous YouTube API integrations, including a livestream-chat bot
- Implemented and deployed a subscriber adhering to [the Google PubSubHubbub 4.0 protocol](#) [🔗]
- Developed a tool for bulk substitutions with regular expressions in YouTube video titles & descriptions
- Automated the creation of YouTube search tags for over 500 videos using NLP technologies, including nltk, TensorFlow, Morfeusz2, ConcraftPL and TermoPL

Technical Trainer (Python Bootcamp)

12/2023 – present

infoShare Academy

- Illustrated and led 4 presentations on the Python Object-Oriented Paradigm, including the basics of: objects, classes, types, classes vs types (gradual typing, [PEP 483](#) [🔗]), attributes, methods, descriptors (methods, properties, class methods, static methods, custom descriptors –referenced [SQLAlchemy hybrid attributes](#) [🔗]), data model, inheritance (C3 linearization and MRO), duck typing & protocols, type hinting (including relevant PEPs, e.g. [585](#) [🔗], [604](#) [🔗], [612](#) [🔗], [613](#) [🔗], [695](#) [🔗]), abstract classes and the collections.abc module

- Conducted Q&A sessions regarding the aforementioned presentations, providing real-life analogies of programming concepts and live coding explanations

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 application 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.

- Created several Jinja templates (with custom extensions and filters), including:
 - Useful GitHub Actions workflows for testing (pytest), type checking (mypy), measuring and deploying coverage reports (coverage.py, smokeshow), publishing to PyPI via [Trusted Publishing](#) 
 - Pre-commit and dependabot configurations that ensure supply chain security and Poetry package lock integrity with the project configuration and dependency specification
 - Default tooling settings & dependency specification used for ensuring any skeleton downstream codebase follows the best practices. Tooling included Ruff, mypy, towncrier and pre-commit
- Automated the build & release process with a template script and a GHA workflow
- Included handy ReadTheDocs and MkDocs configurations with automatic module discovery for generating API references from pre-existing docstrings with mkdocstrings
- Developed a Bash script Jinja template (linted with [Shellcheck](#) ) that allowed mechanized patches in skeleton downstream projects with features such as:
 - Automated pre-commit installation
 - Automated GHA environment provisioning
- Contributed [several new ideas](#)  to [copier](#) , the engine behind skeleton
- Adopted the mentioned skeleton tool to automate CI/CD management in numerous projects, including configzen, autorefine, proxyvars, runtime_generics, class_singledispatch and many more

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](#) 
- Recently assigned to create a new CLI parser that will power the Poetry CLI

autorefine (author)

12/2023 – present

NOT IMPLEMENTED: Invented a tool for automating the refactoring process at scale.

- Wrote down [the minimal requirements for the tool](#) 

- [Received positive feedback from a PyCQA member](#)

pip-run (contributor) and mempip (author)

12/2023 – present

- Contributed a few enhancements and ideas
- Assigned to introduce in-memory installation feature
- [Wrote down in-memory installation feature ideas for collaborators to comment on](#). The write-up included numerous important thoughts on usability, feature stability and unsolved problems

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 the library 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, wrote tests
- Practiced TDD for covariance and contravariance runtime checks
- Adopted the library in the previously mentioned project `configzen`

gd.py (maintainer)

12/2023 – present

- Contributed several CI/CD improvements
- Helped with developing a new major version

class singledispatch (author, inspired by someone else's idea)

12/2023

Available on PyPI as `class-singledispatch`.

- Implemented `functools.singledispatch()` alternative for arguments that are classes
- Designed an exhaustive test suite resulting in 100% coverage

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:

- 100% points for the first stage of the competition,
- 100% points for the first phase of the second stage,
- Qualified for the finals after submitting the projects in the other phase of the second stage.

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).