Pavel Zwerschke

CV

pavelzw
zwerschke
pavel.pink

Positions

2022 – present **Software Engineer**, *QuantCo*

- Built an ETL pipeline for data science problems using Polars and SQL
- Built a Linux cluster using Nomad and Ansible to run data science workloads inside corporate environment
- Contributed to the Conda ecosystem
- Moved the company's internal development tooling to a modern, efficient and scalable workflow, significantly improving developer productivity

2025 – present **Member**, *Conda Steering Council*

The Steering Council is the governing body over the entire Conda Organization. Steering Council members are the face of the organization, and are responsible for officially interfacing with external communities, organizations, non-profits, and companies.

Education

2021 – 2024 **M.Sc. Computer Science**, *Karlsruhe Institute of Technology*, 1.1/1.0

2021 – 2024 **M.Sc. Mathematics**, *Karlsruhe Institute of Technology*, 1.0/1.0 (best of year)

Winter 2022 **Exchange Student Computing Science**, *Radboud University Nijmegen*, 9.5/10

2018 – 2021 **B.Sc. Computer Science**, *Karlsruhe Institute of Technology*, 1.1/1.0

2018 – 2021 **B.Sc. Mathematics**, *Karlsruhe Institute of Technology*, 1.0/1.0 (best of year)

Open Source

`pixi` A modern cross-platform package manager for the Conda ecosystem with a focus on simplicity, speed, and reproducibility (200+ contributions).

`rattler-build` A fast, standalone Conda package builder written in Rust that creates cross-platform relocatable packages from a simple recipe format (100+ contributions).

`rattler` A collection of Rust crates to work with the Conda ecosystem. This library powers all modern Rust-based tooling in the Conda ecosystem (100+ contributions).

`conda-forge` The backbone of the Conda ecosystem. It consists of over 30,000 packages for Linux, macOS and Windows. I maintain over 200+ feedstocks.

Conda tooling I built various other tools for the Conda ecosystem: setup-pixi, pixi-pack, pixi-browse, conda-mirror, conda-deny, pixi-diff, pixi-install-to-prefix, pixi-docker, pixi-diff-to-markdown, pixi-pycharm, starship (pixi support), setup-micromamba

`7circles` An educational video created with manim about the Seven Circles Theorem (Springer). The video is available on YouTube in English and in German.

Further contributions slim-trees, polarify, pydantic-settings-sops, calibre-kindle-comics, moderner-cv, homebrew-core, boring-gravatars, direnv, lefthook

Skills

Technologies Python, Rust, Bash, Linux, Docker, Typst, NumPy, Polars, SQL, scikit-learn, Git, Terraform, GitHub Actions

Languages German (native), English (fluent), French (intermediate), Russian (intermediate), Dutch (intermediate)

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