

Matthew McKee

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[LinkedIn](#) | [GitHub](#) | [Portfolio Website](#)

Experience

Software Engineer | Sivers Photonics

July 2022 - Present

- Developed full-stack CAD automation software for advanced DFB laser design.
- Built internal software reducing product design timelines by over **50%**, improving efficiency and customer satisfaction.
- Maintained several on-site machines to host internal applications for employees.

Software Engineer Intern | JP Morgan

June 2025 - September 2025

- Worked on type checking and developer tools for a large internal codebase.
- Improved developer experience and efficiency for over **4000** developers.

Software Engineer Intern | GDSFactory

February 2025 - Present

- Became a core maintainer of a library with over **4 million downloads**.
- Helped develop several closed-source customer applications.

Software Engineer | Glasgow University Software Service

October 2024 - Present

Projects

Karva | Python Test Framework, Written in Rust | [GitHub](#)

May 2025 - Present

- Created a highly performant open-source test framework, similar to pytest, written in Rust.

GDSR | GDSII Manipulation Python Package, Written in Rust | [GitHub](#)

Aug 2024 - Present

- Created an extremely fast GDSII editing package, in Rust.
 - Enabled reading, writing, and modifying GDSII files.
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Open Source Contributions

Over 4000 contributions in the past year

I am very passionate about Python and Rust. In particular, I am invested in the Python typing community, being the largest public contributor to the Python type checker and language server `ty` regularly.

Also, with my internship at GDSFactory, I have become a maintainer of the GDSFactory and KFactory repositories.

- [GDSFactory](#) (Maintainer)
 - [KFactory](#) (Maintainer)
 - [ty](#) (Contributor)
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Education

University of Glasgow

2022 - 2026

Bachelor of Science in Computing Science and Mathematics

- Dougall Prize for 3rd year Mathematics

Jordanhill School

2016 - 2022

- AAAAB at Advanced Higher
 - AAAAA at Higher
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Technical Skills

Rust, Python, Type Checking, Language Server, React, TypeScript, Docker, nginx, linux, vim.