

Matthew Mckee

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LinkedIn | GitHub | Portfolio Website

Experience

Software Engineer - Sivers Photonics

July 2022 - Present • Python, NextJS

- 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.
- Used GitHub Actions for CI/CD, ensuring automated testing and consistent deployment workflows.

Software Engineer Intern - JP Morgan

July - September 2025 (Scheduled)

Software Engineer Intern - GDSFactory

February 2025 - Present

- Developed and enhanced features in GDSFactory, used in photonic circuit design and fabrication.
- Resolved bugs, improving reliability of widely adopted photonics software.

Software Engineer - Glasgow University Software Service

October 2024 - Present

Education

University of Glasgow

BSc in Computer Science and Mathematics • 2022 - 2026

Open Source Contributions

Over 3000 contributions in the past year

- Ruff (Contributor)
- KFactory (Maintainer)
- GDSFactory (Maintainer)
- Python Typing (Contributor)

Projects

Karva - Python Test Framework

May 2025 - Present • Rust, Python GitHub

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

GDSII Manipulation Python Package - gdsr

Aug 2024 - Present • Rust, Python GitHub

- Created a performant open-source GDSII manipulation package written in Rust with a Python API.
- Enabled reading, writing, and modifying GDSII files through a simple API.
- Set up CI/CD for PyPI publishing, automated testing, and docs.

Technical Skills

Back End: Python, Rust, Django, Flask, Java, MongoDB, SQLite, SQLAlchemy, PostgreSQL, FastAPI, Pydantic, C++, C

Front End: React, JavaScript, TypeScript, NodeJS, Tailwind CSS, NextJS

Testing/Deployment: JUnit, Unittest, GitHub Pages, PyTest

Dev Tools: Docker, Git, npm, TDD, nginx