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 Example City, State

 taylorsmith.dev

 [taylorsmith](https://www.linkedin.com/in/taylorsmith)

 [taylorsmith](https://github.com/taylorsmith)

Ph.D., Biophysics

Example University

2011–2017

Example City

B.S., Biochemistry

Example University

2008–2011

Example City

Programming Languages

 Python

 C++

 TypeScript

 JavaScript

 Rust

Scientific & Bioinformatics Tools

Microscopy Image Processing

Spectroscopy Data Analysis

Bioinformatics Pipelines

NumPy / SciPy / Pandas

Matplotlib / Seaborn / Plotly

Jupyter

Data Engineering & Software

Apache Airflow / Dask

Docker / Kubernetes

Cloud platforms (AWS / GCP)

CI/CD (GitHub Actions, Jenkins)

Git / GitHub

Taylor Smith

Scientific Software Engineer

Scientific software engineer specializing in biophysics and bioinformatics, with experience in microscopy and spectroscopy data analysis, computational modeling, and open-source scientific software. Skilled in mentoring teams, leading collaborative projects, and developing robust, reproducible pipelines for biological research.

Lead Scientific Software Engineer

Example Bioinformatics Lab

2020–Present

Remote

- ▶ Led the end-to-end development of robust, open-source Python libraries for microscopy and spectroscopy data analysis, spanning raw data ingestion, signal processing, statistical modeling, and visualization, with a strong emphasis on reproducibility, performance optimization, and maintainability to support large-scale, high-throughput experimental workflows used daily by interdisciplinary research teams.
 - ▶ Lead development of open-source Python libraries for microscopy and spectroscopy analysis.
 - ▶ Designed reproducible pipelines for high-throughput experimental datasets.
 - ▶ Mentored a team of junior developers and research interns in computational biology tools.
 - ▶ Collaborated with biologists to integrate software pipelines into laboratory workflows.
 - ▶ Established coding standards, testing, and CI/CD for bioinformatics projects.
- Scientific Software Engineer
Advanced Imaging and Bioanalytics Company
2017–2020
- Example City
- ▶ Built software for real-time microscopy image acquisition and spectral analysis.
 - ▶ Developed interactive dashboards for visualization of bioinformatics and experimental data.
 - ▶ Contributed to open-source scientific analysis projects, including bioimaging libraries.
 - ▶ Provided workshops and training sessions on computational tools for researchers.
- Research Associate
National Institute for Molecular Imaging
2012–2017
- Example City
- ▶ Automated processing and analysis of microscopy and spectroscopy datasets.
 - ▶ Assisted in integration of computational models with experimental workflows.
 - ▶ Contributed example notebooks and documentation to internal bioinformatics libraries.