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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

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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

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- ▶ 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

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- ▶ 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.