









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 Example City, State  
 [taylorsmith.dev](http://taylorsmith.dev)  
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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.