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# 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.

## Professional Experience

### 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.

## Education

Ph.D., Biophysics  
Example University  
2011–2017

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B.S., Biochemistry  
Example University  
2008–2011  
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## Skills

### 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

### 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.