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Education

Ph.D., Biophysics
Example University
2011–2017
Example City

B.S., Biochemistry
Example University
2008–2011
Example City

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

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.

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.