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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.

Education

Ph.D., Biophysics  2011–2017

Example University
Example City

B.S., Biochemistry  2008–2011

Example University
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 

Data Engineering & Software

Apache Airflow / Dask
Docker / Kubernetes
Cloud platforms (AWS / GCP)
CI/CD (GitHub Actions, Jenkins)
Git / GitHub

Professional Experience

Lead Scientific Software Engineer

 Example Bioinformatics Lab | Remote

 2020–Present

- 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 | Example City

 2017–2020

- 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 | Example City

 2012–2017

- 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.