Nathan J. Goldbaum

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Major Open Source Contributions

NumPy

- Foundational library for multidimensional arrays in Python.
- Joined maintainer team in 2023.
- Author of the variable-width string array data type added in NumPy 2.0 and described in NEP 55.
- Led effort to support free-threaded Python in NumPy 2.1 and primary maintainer for the free-threaded build.
- $\bullet\,$ More than 200 merged pull requests. Thirteenth most prolific all-time contributor by commit count.

Py03 https://pyo3.rs

- The Rust bindings for the Python interpreter.
- Joined maintainer team in 2024.
- Led effort to support free-threaded Python in PyO3 0.23 and primary maintainer for the free-threaded build.
- More than 40 merged pull requests.

PyTorch

- Contributed the <u>__torch_function__</u> mechanism for extending PyTorch in downstream libraries and many bugfixes.
- 20 merged pull requests.

unyt

- A Python library for working with data that has physical units.
- Primary author and original maintainer.
- Extensively documented and tested Python codebase that can turns a Python prompt into a full-featured calculator for problems with physical units.
- Used in production for scientific and engineering data processing pipelines.

Experience

Quansight Labs, Senior Software Engineer	November 2022 - Present
• Improving and maintaining the scientific Python ecosystem.	
Quansight, Software Engineer	October 2019 – March 2020
• Worked with PyTorch team to handle community-reported bugs and feature requests.	
Recurse Center	May 2019 – August 2019
• Gained facility in the Rust programming language by blogging about self-directed learning experiences.	
National Center for Supercomputing Applications	
Research Scientist	May 2017 – April 2019
Postdoctoral Researcher	August 2015 – April 2017

• Primary maintainer for The yt Project, an open toolkit for working with 3D simulation data.

Education

University of California Santa Cruz Ph.D. Astronomy & Astrophysics University of Colorado Boulder

B.A. Physics, Summa Cum Laude

https://numpy.org

https://pytorch.org

https://github.com/yt-project/unyt/