John Purviance

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Experience

Tech Lead & Sr. Software Engineer, NVIDIA

Boulder CO,, July 2022 - Present
- Architected & Built Python API Abstractions for ML Workflow data inputs.
- Designed, Built & Supported Python Packaging for NVIDIA & Partners.
- Tech Lead — Empowered Engineers to:
  - Automate ourself out of a job — Automated Test & Release of SDKs & CLI
  - Bring concurrent requests to core Python Client SDK.
  - Simplify Python SDKs — remove over 20k lines of APIs.

Sr. Software Engineer, Bloomberg LP

New York NY, October 2021 - June 2022
- Architected and Orchestrated Bloomberg's Python 2 to 3 migration for the Object Storage system.
- Created API contract validation system that reduced time to production.

Python Guild Leader, Bloomberg LP

New York NY, July 2019 - June 2022
- Architected and Built Bloomberg's core caching framework for Python TCP Services & Clients.
- Expanded codec support for Bloomberg's core Python TCP Services and removed expensive encode-decode operations.
- Taught workshops to over 400 Engineers on Python 2 to 3 Migrations, Concurrent Programming in Python, and Creation & Distribution of Python Packages.

Sr. Software Engineer, Bloomberg LP

New York NY, June 2017 - October 2021
- Reduced build time of core Python component by 90%.
- Designed and Built performance evaluation system for security extraction that increased developer productivity by over 100%.

Data Engineer (Intern), Capital One

Dallas TX, June 2016 - August 2016

Software Engineer (Intern), Reinventing Geospatial, Inc.

Fairfax VA, June 2015 - August 2015

Software Engineer (Co-Op), Reinventing Geospatial, Inc.

Fairfax VA, January 2015 - May 2015

Education

B.S. in Computer Science
Virginia Tech 2017
Minors in Math & Economics

Open Source

Typer — PyCon 2023,
Type Parsing for Python CLIs

Bloomberg Review Panel,
August 2021 - June 2022

Engineering Development

Tech Lead — MagLev SDKs,
NVIDIA, 2023 - Present

New Employee Mentor,
Bloomberg, 2018 - 2022

Skills

Python, Python Packaging,
Docker, Kafka and Git