JIM CRIST-HARIF

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SUMMARY

An experienced software engineer and manager with a proven track record of developing OSS data analytics tools that users love.

LANGUAGES

- Proficient: Python | Cython | C
- · Capable: SQL | Go | Java

TECHNOLOGIES

- K8s | Apache YARN | HPC Schedulers
- DuckDB | Polars | Dask | Ibis

INTERESTS

- Data Analytics Tooling
- API Design / Developer Experience
- Distributed Systems
- · Open Source Community Health

EXPERIENCE

Engineering Manager — Voltron Data

Jun 2022 - Oct 2024

- Led the team developing ibis, an ergonomic dataframe API wrapping 20+ SQL databases.
- Interfaced with Product and Leadership to turn product requirements into engineering tasks.
- Authored Ibis's backend wrapping Voltron Data's distributed GPU engine.
- Created ibis-ml, an ML framework for preprocessing and feature engineering using Ibis.

Senior Software Engineer — Coiled

Aug 2021 - May 2022

- Led an effort to revamp dask's parquet support, improving performance by up to 8x.
- Optimized dask's networking layer, reducing RPC latency by 2x.

Senior Software Engineer — Prefect

Apr 2020 - May 2021

- · Led development of Prefect's core workflow framework.
- Interfaced actively with users and customers, helping resolve issues and improve user experience.
- Optimized Prefect's dask integration, allowing for resilient and scalable execution of large workflows.

Senior Software Engineer — Anaconda

Jun 2015 - Apr 2020

- Core contributor to dask & distributed, a parallel and distributed compute framework for Python. Wrote much of the original implementation of dask and dask-ml.
- Created datashader, a high performance plotting library for large data.
- Identified and resolved issues deploying Python in enterprise Hadoop environments. This resulted in the development of several new tools, including a <u>complete JupyterHub deployment</u>.
- Created and led development of <u>dask-gateway</u>, a tool for managing and deploying Dask in multiuser enterprise environments. Helped several large organizations deploy dask-gateway to serve hundreds of users.
- Executed dask consulting engagements, helping several Fortune 500 companies use dask in production.

OPEN SOURCE

- · Dask steering council member
- Ibis steering council member
- Creator and lead maintainer of <u>msgspec</u>, currently the fastest JSON validation library for Python.
- Presented talks and tutorials at 30+ past conferences including Strata, PyCon, SciPy & PyData.
- · Past mentor for Google Summer of Code.

EDUCATION

MSc. Mechanical Engineering (unfinished) — University of Minnesota Designed novel state estimation algorithm for linear actuator system.

Sep 2013 - May 2015

BSc. Mechanical Engineering — University of Minnesota

Sep 2009 - May 2013