

James Santucci

Portland OR

<https://github.com/jisantuc>

RELEVANT TECHNICAL SKILLS

Daily professional use: Python (scientific stack, FastAPI), git, GitHub, Docker, PostgreSQL with PostGIS

Non-professional use: Haskell, PureScript

Previous: Scala (TypeLevel stack), TypeScript, React

WORK EXPERIENCE

Umbra Space

Remote

Senior Software Engineer II

Feb. 2025 - Current

Senior Software Engineer I

Jul. 2023 - Feb. 2025

- Overhauled interface design for internal scheduling software to support simulation capabilities
- Led internal interface migrations to ease on ramp for future product offerings
- Maintained internal biweekly engineering presentation series
- Gathered requirements for, designed, and implemented enhancements to throughput and latency of commercial and direct downlinking capabilities

Flock Freight

Remote

Senior Software Engineer

Oct. 2022 - Jul. 2023

- Led refactor of a complex pricing subsystem to improve readability, explicability, and reproducibility
- Integrated new pricing models across team boundaries in the presence of complex and ad hoc business rules
- Led incident response using DataDog and Google Cloud Platform metrics

47 Degrees

Remote

Senior Software Engineer

Dec. 2021 - Sept. 2022

- Consulted with a Fortune 500 company to upskill a small team in functional Scala
- Upgraded and planned refactor for Scala educational platform spanning twelve repositories
- Proposed, planned, and implemented Scala build plugin for [measuring energy consumption](#)

Azavea

Philadelphia, PA

Senior Software Engineer

Feb. 2021 - December 2021

Software engineer

Jun. 2016 - Feb. 2021

- Instrumented and load tested services to identify failure modes and opportunities for performance improvement
- Overhauled [Raster Foundry](#) imagery server dynamic raster tile service to serve 7 million requests per month at 800ms p90, 1500ms p95 latency
- Organized and led reading groups on functional programming and DevOps culture
- Maintained open source Scala [spatio-temporal asset catalog](#) (STAC) libraries

EDUCATION

University of Massachusetts Amherst

Amherst, MA

BA Economics cum laude

2013