

# James Santucci

Portland OR

<https://github.com/jisantuc>

## RELEVANT TECHNICAL SKILLS

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**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

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### 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

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### University of Massachusetts Amherst

Amherst, MA

*BA Economics cum laude*

2013