

CONTACT

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Portland OR 97206

CollectionOfAtoms.com

EDUCATION

- University of Colorado
Bachelor of Arts in Astronomy
 - Astrophysics Track
 - Minor in Physics
 - Minor in Computer Science

Graduated December 2014

SKILL

- Python
- Neo4j
- Javascript / Typescript
- React
- Docker
- Spark
- Data Lakes
- Pandas / Dask
- Flask
- Next.js
- AI / LLM integration
- Test Driven Design

REFERENCE

- Jason Trager | CEO Plentiful.ai
Phone: +609-553-5237
Email: jason.s.trager@gmail.com

- Bill Sabo | Integral Analytics
Email: WRSabo@gmail.com

Jesse Caldwell

SOFTWARE ENGINEER
ENVIRONMENTALIST
ETHICAL HUMANIST

PROFILE

I am a logical thinker, thoughtful problem-solver, musician, and long-distance backpacker, dedicated to mindful living and positive impact. With strong technical skills, I excel at using computers as tools to realize my vision and am eager to explore the potential of Artificial Intelligence to drive positive change. I believe in re-imagining the systems we've inherited, knowing that we have the power—and responsibility—to build a better future together.

I am passionate about nonviolent communication and skilled at fostering good faith conversations across diverse perspectives.

I seek opportunities that align with these values and strive for meaningful impact.

WORK EXPERIENCE

April 2022 - April 2025

 Integral Analytics, Portland OR

Software Engineer

- Developed a custom graph database and reporting infrastructure for the Grid Needs Assessment (GNA) used by major utilities, providing enhanced visibility into equipment upgrade requirements and timelines.
- Built a query interface for the National Renewable Energy Laboratory's (NREL) open-source computed heat-transfer model data, enabling tailored comparisons of energy savings scenarios, such as appliance upgrades and insulation improvements.
- Contributed to the design and maintenance of various ETL frameworks, integrating public and private data sets into custom Neo4j data models and data lakes, and enhanced geospatial analysis by transforming data into H3 cell-based features.

2019 - 2022

 Sustainabilist, Portland OR

Full-stack Developer

- Designed and implemented custom web applications for clients in the energy and efficiency sector, tailored to meet specific needs and improve operational workflows.
- Built a specialized web application for a leading solar certification organization, enabling efficient tracking of certification milestones and requirements. The platform automated the generation of physical certificates and personalized letters, significantly reducing manual effort in postal communication.
- Developed a cross-platform web and mobile application for field inspections of solar systems, designed for use by accredited solar providers. The app streamlined the evaluation process by providing real-time data input for safety, condition assessments, and longevity estimates of solar installations.

2016 - 2019

 Schrödinger, Portland OR

Associate Programmer

- Led custom NetSuite development and maintenance for the sales and accounting departments at Schrödinger, optimizing processes and ensuring seamless integration with business operations.
- Enhanced and maintained a C# application to streamline custom quoting processes for Schrödinger's licensing, improving accuracy and efficiency.
- Developed and maintained license generation infrastructure, ensuring secure and reliable licensing for Schrödinger's software products.
- Collaborated closely with the accounting team to define requirements and implement the integration of Salesforce with Schrödinger's systems, aligning workflows and improving data synchronization.