

# Zachary A. Kraehling

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## PROFESSIONAL SUMMARY

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Quantitative developer and enthusiast for all things Linux, risk, and math. Educational background is in data analytics and economics. Focus is in fixed income, object-oriented programming, and data analysis. Creator and maintainer of full-fred, an open-source Python API for accessing the Federal Reserve Bank of St. Louis databases.

## EXPERIENCE

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- **Fortitude Reinsurance** Nashville, TN  
*Investment Analytics Associate* August 2023 – Present
  - Developed and maintained software to create interest rate scenario data for portfolio stress testing using Python, SQL, and AWS.
  - Designed interactive yield spread data validation streamlit dashboards in externally projected asset creation pipelines.
  - Created Python modules to scale asset manager cashflow data from security-level to lot-level.
  - Collaborated with and delivered cashflow projections to Actuarial and Capital teams in support of reserving requirements, daily hedging, and asset-liability management.
- **Clearwater Analytics** Boise, ID  
*Client Servicing Analyst* December 2021 – August 2023
  - Validated investment data sets against cashflow predictions and third-party custody data.
  - Created standard operating procedures for quarterly investment accounting reporting projects.
  - Reconciled transactions and positions of investment portfolios using data received via third-party providers.
  - Supported insurance client queries within GAAP accounting, performance, compliance, and risk reports.
  - Integrated alternative investments including limited partnerships into client reporting workflow.

## EDUCATION

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- **Boston University** Boston, MA  
*Master of Science in Applied Data Analytics Candidate* June 2020 – Dec 2021, Oct 2024 – Present
- **The Ohio State University** Columbus, OH  
*Bachelor of Arts in Economics* August 2016 – May 2019
  - Cum Laude
  - Cofounder and President of Sports Analytics Society
- **Passed CFA Level 1 Exam** January 2025

## SKILLS

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- Languages: Python, SQL, Bash, Java
- Technologies: Linux, PostgreSQL, Git, AWS, FactSet, Docker

## PROJECTS

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- **full-fred:** Open-source Python library for financial and economic data analysis via St. Louis Federal Reserve.
- **bitcoin-network-tools:** Open-source Python library providing a wrapper for the Bitnodes API, a Bitcoin blockchain network health monitor.
- **Python Homepage Flask Application:** Homepage portfolio website built with Flask.