Zachary A. Kraehling

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PROFESSIONAL SUMMARY

Analytics software engineer and enthusiast for all things Linux, risk, and math. Educational background is in data analytics and economics. Focus is in quality assurance, data analysis and data wrangling. Creator of full-fred, an open source Python API the Federal Reserve Bank of St. Louis recommends for accessing its databases.

SKILLS

- **Languages**: Python, Java, R, C, SQL, Bash

- **Technologies**: Postgres, Git, Pandas, Numpy, Pytest, Matplotlib, Spring Boot, Vim, Arch Linux, Ubuntu

EDUCATION

- **Boston University**   Boston, MA
  Master of Science in Applied Data Analytics; GPA: 3.33   *Sep. 2019 – Present (May 2022)*

- **Ohio State University**   Columbus, Ohio
  Bachelor of Arts in Economics; GPA: 3.55   *Aug. 2016 – May 2019*
    * Cum Laude
    * Cofounder and President of Sports Analytics Society

PROFESSIONAL EXPERIENCE

- **Ohio State University**   Columbus, OH
  Economics Research Assistant   *July 2018 - July 2019*
    ○ **Manuscript Writing & Editing**: Co-authored and edited hypothesis, analysis, abstract, prediction elements of research manuscript focused on asymmetry in transfer markets of over 3,000 NCAA football recruits spanning 14 years.
    ○ **Statistical Modelling**: Augmented OLS and Probit regression models. Result of paper included an invitation to interpret key implications of models at the 2019 Eastern Economic Association Conference in New York, NY.

PROJECTS

- **full-fred**: Open source python library for financial and economic data analysis via St. Louis Federal Reserve.
- **HHS Selenium Bot**: Selenium Firefox web scraper in Python that navigates to the U.S. H.H.S. archive of medical data breaches affecting 500+ people, clicks JavaScript buttons, monitors download, and closes. It removes zombie processes and reduces 100% of unit labor cost of manual data retrieval.
- **Java Homepage Spring Boot Application**: Homepage portfolio website built with Spring Boot and Java.

VOLUNTEERING

- **FamilySearch**   Remote
  Volunteer Web Indexer   *May 2021 – Present*
    ○ **Web Indexing**: Parsed and transcribed 202 birth, census, probate, and naturalization legal records as part of FamilySearch's web indexing initiative to make historical legal records searchable online for FamilySearch users.