

# Jonathan Alistair Jayes

Data Scientist • Economic Consultant  
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Highly analytical Data Scientist and PhD candidate with 4 years of experience designing and implementing AI-driven solutions and robust data systems. Passionate about translating complex real-world problems into mathematical models and easy to use software.

## Work Experience

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### Codera Analytics

Lund, Sweden

Data Scientist

12/2022 - Present

Led various data science projects, including managing clients and overseeing a team of three

- Led the development and successful testing of an AI-powered MVP (leveraging LLMs) to automate data extraction from diverse corporate reports, reducing manual processing time by ~80% and delivering a scalable solution for the client
- Managed the complete lifecycle of a large-scale public finance data project for Africa, from successful bid to delivery of a structured dataset and ETL pipelines for thousands of documents, enabling enhanced data accessibility and analysis
- Engineered a scalable data pipeline incorporating >60 web scrapers, automated classification (using multimodal LLMs), and robust SQL/NoSQL database architecture to systematically collect, process, and store complex public finance documents

### Fathom Data

Lund, Sweden

Junior Data Scientist

01/2022 - 03/2022

Contributed to developing a data product analyzing scraped consumer pricing trends

- Developed an automated reporting pipeline using SQL and R to analyze scraped consumer pricing and volume discount data, directly informing commercial strategy through identification of client segments and market opportunities

### FTI Consulting South Africa

Cape Town, South Africa

Junior Competition Economics Consultant

03/2019 - 01/2020

Supported senior economists by performing rigorous quantitative analysis, developing data visualizations, and building models to address complex competition, trade, and pricing challenges for major clients.

- Conducted econometric analysis and created data visualizations for a major merger case, assessing market definition and competitive effects to support regulatory approval
- Executed detailed analysis of South African poultry import data (8-digit HS code) using Stata, SQL and Excel, identifying key trends in volume and pricing to inform trade dispute strategies
- Analyzed complex mobile data pricing structures and customer segmentation for telecommunications operators, building models to identify patterns and inform optimal pricing strategies

## Education

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### PhD in Economic History

Lund University

2021 - 2025

Planning to defend my thesis in October 2025.

- Designed and implemented a novel AI pipeline automating the extraction and structuring of data from historical biographical dictionaries, reducing manual transcription time by 3 months

### Masters in Economics

Stellenbosch University

2020 - 2021

Graduated with distinction.

### Honours in Economics and Bachelors in Social Science

University of Cape Town

2015 - 2018

Dean's Merit List. Top mark in my year for four courses.

## Skills

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### Data Science & Engineering Proficiencies

- Programming & Algorithms: Python (Expert; incl. Pandas, Polars, scikit-learn, NumPy, SciPy, Matplotlib – PyLab suite proficiency), SQL (Expert), R (tidyverse, tidymodels), Algorithm Design & Heuristics
- AI/ML & Statistics: AI/LLM Application (OpenAI, Gemini, Claude APIs for automated data structuring & classification), Machine Learning (incl. experience relevant to probabilistic approaches & model formalism), Classical Statistics (hypothesis testing, confidence intervals), Data Mining
- Data Processing & ETL: ETL Development, Data Pipeline Engineering, Database Management (SQL & NoSQL concepts, database architecture), Data Reporting & Ad-hoc Analysis (Python/SQL, experience with cloud data platforms e.g., GCP; quick to learn tools like Athena, Google BigQuery)

### Languages

English (native), Swedish (B1), French (A2).

### Interests

Running, Geoguessr and international trade