

# Garth Mortensen

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## Dev & Data Scientist

Experienced dev skilled in python, databases, linux, OOP, and data science.  
Ability to dissect problems and prototype fullstack solutions.

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## Professional Experience

### Federal Reserve Bank of Minneapolis

**Sr. Data Scientist, Stress Testing Production.** *Minneapolis, MN - 06/2022 – Present*

- Contributed to infrastructure, econometric models, and dashboards.
- Bridged the gap between frontend and database support team, and Production econometric modeling team to ensure smooth integration. Developed database version diff tool to rapidly identify and resolve issues.
- Proactively introduced unit testing, autotesting, and autodocs to python repos. Co-championed long-term plan to streamline code releases.
- Independently worked to improve model reproducibility via automation of security, conda, ssh, git, variable OS modules. Worked on OS migration, chmod enablement and GitLab runners.
- Co-prototyped a fullstack data management system using Flask and SQLite using dynamic SQL queries, HTML forms, endpoints. Currently productionalizing.

### University of Minnesota FinTech Bootcamp

**Instructor. Student Review.** *Saint Paul, MN - 09/2021 – 04/2023*

- Taught Python programming to working professionals, ranging from sysadmins to finance directors.
- Explored cutting-edge topics such as Machine Learning/AI and blockchain/Solidity smart contracts.
- Scored 9/10 across all rating categories (engagement, clarity, knowledge), across 270+ lecture hours.

### Medica

**Sr. Healthcare Analyst** *Minnetonka, MN - 11/2019 – 06/2022*

- Implemented models to predict member diagnoses.

- Discovered a technique to automate reconcile databases, requiring .xml and unstructured data processing.
- Configured bare-metal RHEL server with required libraries, then scripted OCR process to extract .pdf info and insert into database.
- In zero-sum ACA marketplace, United Health Group outperformed competition.

## **United Health Group R&D**

**Developer/Data Scientist, contract.** *Minneapolis, MN - 01/2019 - 11/2019*

- Developed healthcare claims analyses using SQL, Python, and machine learning concepts, resulting in actionable findings presented to the CEO.
- Authored scripts for transforming data, pulling from APIs, ETL, validation, and visualizations.
- Worked on the development of a next-gen big data database for health researchers.

## **Munich Reinsurance**

**Sr. Data Analyst.** *Minneapolis, MN - 05/2017 - 12/2018*

- Programmatically swept filesystem for all unstructured, disparate claims and transformed them into structured data. Designed and populated a 7+ million record star-schema database.
- Analyzed DIY database to discover insights such as leading diagnoses by prevalence and cost.
- Created and deployed custom-built productivity tools with a GUI frontends.

## **Decyphed**

**Entrepreneurial NLP Developer.** *Paris, France - 05/2015 - 01/2016*

- Programmed text analysis plug-ins/tools specialized in language learning applications.

## **Saylor Consulting**

**Industry Cost Consultant, contract. Recommendation available.** *San Francisco, CA - 12/2013 - 07/2014*

- Analyzed industry factors influencing construction industry costs (material/labor) and forecast prices.
- Overhauled cost benchmarking using early industry indicators, resulting in algorithmic, reproducible cost setting.
- Delivered data-driven market analysis reports and product presentations to Federal client.

## **GE Capital REIM**

**Investor Relations.** *Paris, France - 07/2012 – 12/2012*

- Oversaw financial database, competitor and industry developments, financial metrics.
- Interpreted market fundamentals for big-ticket investors seeking to purchase entire real estate fund portfolio.
- All \$25+ billion in assets sold off to Blackstone and other financial institutions.

## **Xinhua News Agency**

**Financial News.** *Beijing, China - 02/2009 – 07/2011*

- Led a 15+ international team in the creation of an economics news show. Led by example, working 6 months straight without weekends or PTO in order to satisfy high pressure deadline.
- Innovated demand-driven airtime allocation, using API article topic demand divided by total. Approach was anonymously leaked to CNN International, and appeared on their broadcast lineup for months to years. Still bitter.
- Economics news program ended up selling content to top global news channels and advertising in Times Square.

## **Caijing Magazine**

**Economic Research Assistant.** *Beijing, China - 01/2008 – 09/2008*

- Published 15+ print stories, commodity reports, and analyses.
- Administered and redesigned website. Introduced self made podcasts, video stories, user comments, and other Web 2 technologies, doubling online readership.
- Managed the internship program, allocated work based on strengths and interests.

## **College, high school jobs**

*Minneapolis, Minnesota. 1/2001 – 12/2007*

- College: Owner of brick-and-mortar business providing website design, search engine optimization and graphic design services.
- High school/college: Employee of small business providing graphic design, search engine optimization and offsite hosting/storage services.

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## **Formal Education**

**St. Thomas University**

St. Paul, USA. 2023

- Double MSc in Software Engineering and Data Science
- Double MSc Certifications in AI and Big Data
- GPA 3.9

**EDHEC Business School**

Nice, France. 2012

- MSc Finance

**Hamline University**

St. Paul, USA. 2007

- BA Economics
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**Skills**

**Tech:** Python/R, SQL/NoSQL, database design, Linux, APIs, AWS, CI/CD, containers. Aspiring to build decoupled microservices, APIs (RESTful/GraphQL), fullstack prototyping, 12-factor app solutions.

**Certifications:** MS Software Development, MS Databases, MS IT Networking, MS IT Security, MS HTML/CSS, AWS Cloud Practitioner, Graph SQL, Google Analytics IQ, Excel/VBA, Bloomberg Terminal.

**Languages:** English, French and Mandarin Chinese (CEFR B2 basic fluency, but diminishing).