# Garth Mortensen

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## Dev & Data Scientist

Versatile polyglot programmer proficient in python, SQL (databases), R, etc. Skilled in linux, OOP, and data science. Able to dissect complex problems and refactor into microservice solutions.

## 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**](https://www.coursereport.com/schools/university-of-minnesota-boot-camps?shared_review=42025#reviews)**.** *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.

## 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

## 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).