# Garth Mortensen

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Contact: [mortensengarth@outlook.com](mailto:mortensengarth@outlook.com) | (612) 212-9519 | Minneapolis, MN

Profile: [github.com/garthmortensen](https://www.github.com/garthmortensen) | [linkedin.com/in/mortensengarth](https://www.linkedin.com/in/mortensengarth)

Latest version: [PDF](https://github.com/garthmortensen/cv/raw/main/latest-output/cv_garthmortensen.pdf) | [DOCX](https://github.com/garthmortensen/cv/raw/main/latest-output/cv_garthmortensen.docx)

## Data Scientist

Creative coder experienced in data science, software engineering and CI/CD. Adept at bridging the gap between technical and non-technical fullstack teams to achieve organizational success.

## Latest Project: [SpilloverLab.com](https://www.spilloverlab.com)

Financial time series analysis platform that performs ARIMA/GARCH/spillover modeling. It provides human-readable interpretations, visualizations, [REST APIs](https://api.spilloverlab.com/redoc), [GraphQL](https://api.spilloverlab.com/v1/graphql/), and [MCP server integration](https://github.com/garthmortensen/timeseries-api/blob/main/mcp_server.py) for AI agents. Build for modular, microservice cloud-hosted architecture, and [fully documented](https://timeseries-compute.readthedocs.io/en/latest/) using CI/CD pipelines.

## Professional Experience

### Federal Reserve Bank of Minneapolis

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

* Maintained multiple models, infrastructure, dashboards, adhoc analyses for Board of Governors.
* Served as Production econometric team’s informal python lead, and formal liaison to middle and backend teams, ensuring smooth integration.
* Proactively introduced unit testing, CI/CD, makefiles, simple-English docs.
* Trained economists in Python, Linux, and computer science principles, enabling self-sufficiency.
* Technical lead in migrating Production codebase across OS, language versions, environments, enabling reproducibility.
* Prototyped a fullstack data management system for tracking Stress Testing operations.

### 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 database reconciliation, 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, consistently 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 art studio 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, but diminishing).