Garth Mortensen

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[github.com/garthmortensen](https://github.com/garthmortensen)

## Summary

Python/SQL user with predictive modeling and teaching experience.

# Experience

University of Minnesota. Saint Paul, MN. 09/2021 – Present  
**Instructor, FinTech Bootcamp.** [FinTech Boot Camp Review - 12/11/2021](https://www.coursereport.com/schools/university-of-minnesota-boot-camps?shared_review=42025#reviews)

* Taught python programming to learners with backgrounds ranging from sysadmin to finance directors.
* Main topics covered machine learning and blockchain/cryptocurrencies. Side topics included AWS, OOP and Git.
* Earned 9/10 in student feedback across all rating categories (engagement, clarity, knowledge) over 250+ lecture hours.

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

* Coded and automated various projects revolving around Affordable Care Act.
* Performed predictive modeling work to increase revenue and decrease costs associated with accessing electronic medical records and discovering diagnoses.
* In zero-sum ACA marketplace, consistently outperformed competition via innovative approaches.

United Health Group R&D. Minnetonka, MN. 01/2019 – 11/2019  
**Data Scientist/Developer**, contract.

* Developed healthcare claims analyses using SQL, Python and machine learning concepts, resulting in actionable findings presented to CEO.
* Analyzed prevalence of low-value procedures, significance of primary care physicians on readmission, and length of stays for disease groupings.
* Authored scripts for transforming json/xml/csv files, pulling from APIs, relational database ETL, data validation, summary visualizations.
* Designed, created and populated JSON- and relational-database.
* Contributed to programmatic development of Graph Database covering various code taxonomies, applied to member-level data.

Munich Reinsurance. Minneapolis, MN. 05/2017 – 12/2018  
**Sr. Data Analyst/Programmer.**

* Programmed the creation of 7+ million entry simple relational database.
* Analyzed database to discover insights such as leading diagnoses by dollars and prevalence.
* Associated diagnoses with dollar amounts. Delivered email alerts when new high-cost diagnoses entered database for improved cost mitigation.
* Modeled department procedures with 100+ leaf decision-tree, revealing which processes could/should be automated.
* Deployed custom built productivity tools with GUI frontend for colleagues across the company.

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

* Programmed Google text analysis plug-ins. Specialized in language learning applications.

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

* Overhauled cost benchmarking using advanced statistical analysis.
* Analyzed factors influencing construction industry costs, i.e. market forces behind various materials/labor trades.
* Delivered data-driven market analysis reports and presentations to Federal government.

GE Capital REIM. Paris, France. 07/2012 – 12/2012  
**Investor Relations, Finance**. [Linkedin Recommendation](https://www.linkedin.com/in/mortensengarth/)

* Interpreted market fundamentals for big ticket investors in multibillion euro real estate funds and oversaw competitor and industry developments, financial metrics and financial database.

Xinhua News Agency. Beijing, China. 02/2009 – 07/2011  
**Financial News Producer**

* Led 15+ team in creation of an internationally broadcast economics news show.
* Program ended up supplyin content to top global channels and advertising in Times Square.

Caijing Magazine. Beijing, China. 01/2008 – 09/2008  
**Economic Research Assistant.** Recommendation available

* Published 15+ print stories, commodity reports and analyses. Invited back to freelance and administered website and introduced podcasts, video, and CSS, thereby doubling online readership.
* Managed internship program, allocated work based on team members’ strengths and interests.

## Education

St. Thomas University. St. Paul, USA. Current  
**MSc Data Science**  
**MSc in Software Engineering** (ongoing, 2 classes remain)Certifications in both Artificial Intelligence and Big Data  
  
EDHEC Business School. Nice, France. 2012  
[**MSc Finance**](http://rankings.ft.com/businessschoolrankings/masters-in-finance-pre-experience-2017)  
Hamline University. St. Paul, USA. 2007  
**BA Economics**

## Tech Brief, Certifications and Languages

**Technologies:** [Python](http://rpubs.com/GMortensen)/R/Matlab, SQL, SAS (proc sql), Solidity, [Git](https://github.com/garthmortensen/), big data, dashboards (Tableau/Qlik), HTML/CSS, VBA, Microsoft Technology Associate.  
  
**Techniques:** Deep learning, [ensembles, regression](http://rpubs.com/GMortensen), [time series](http://www.scribd.com/doc/145289027/Volatility-Spillover-Analysis-of-Mainland-China-US-Real-Estate), [financial modeling](http://www.scribd.com/doc/145289027/Volatility-Spillover-Analysis-of-Mainland-China-US-Real-Estate), APIs, visualizations.

[**Certifications**](https://github.com/garthmortensen/certifications)**:** Software Development, Databases, IT Networking, IT Security, HTML/CSS, AWS Cloud Practitioner, Google Analytics IQ, Excel/VBA, Bloomberg Terminal.  
  
**Languages:** English (Native), conversational French and Mandarin Chinese (CEFR B2 ~ basic fluency).