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.

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.
- Served as bridge between frontend and database support team, and Production econometric modeling team to ensure smooth integration.
- 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, 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 working to productionalize for department use.

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.

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. Aspirations: build decoupled microservices, containerized fullstack prototypes, 12-factor apps and design APIs (RESTful/GraphQL).

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 (diminished CEFR B2 basic fluency).