

Peter Hagen Systems Engineer

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Profile

Data and systems professional with **5+ years of experience in analytics, modeling, and business intelligence**. Skilled in **Python, R, SQL, Tableau, and Excel**, with a background in **data visualization, financial/energy modeling, and systems engineering**. Experienced in building dashboards, automating reporting, and delivering insights that drive strategy and efficiency. Strong communicator with cross-functional experience across **finance, government, and technology** sectors.

Professional Experience

02/2023 – 07/2025

Washington, DC

National Association of Home Builders, Director, Membership Data 

- Built dashboards and reports for 114,000+ member records, improving executive insights and retention strategies.
- Automated reporting processes, improving efficiency and accuracy.
- Delivered presentations and analysis to leadership on trends, growth, and engagement.

04/2019 – 11/2020

McLean, VA

Defense Government Contracting International, Business Analyst 

- Developed models to analyze fuel bids, pricing, and energy markets.
- Used statistical methods to assess contract outcomes and risk.
- Supported multimillion-dollar decisions with predictive analytics.

11/2016 – 07/2018

Fairfax, VA

Jovie, Business Analyst 

- Automated data processes with Python/R, improving operational efficiency.
- Designed SQL reporting to support workforce allocation for 200+ employees.

05/2015 – 08/2015

Arlington, VA

National Rural Electric Cooperative Association, Intern 

- Assisted with solar panel proposal and documentation system reorganization.

Education

01/2018 – 05/2019

Fairfax, VA

Masters of Science, George Mason University 

- Capstone: Commercial Aircraft Failure Analysis
- Projects: Drone crisis-response simulation; UML modeling of electric load balancing
- GPA: 3.98

08/2011 – 12/2015

Blacksburg, VA

Bachelors of Science, Virginia Tech 

- Capstone: Facility redesign analysis at New River Carillion Hospital
- Division 1 Club Lacrosse Team – Conference Champions (2013, 2014)
- GPA: 3.01