






# 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