

# Steven J. Fischbach

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847.309.3157 • [steven.fischbach@gmail.com](mailto:steven.fischbach@gmail.com)  
[linkedin.com/in/steven-j-fischbach](https://www.linkedin.com/in/steven-j-fischbach) • [github.com/fischtank44](https://github.com/fischtank44)

## Technical Skills

- Python and R data science packages
- Statistical analysis
- Tableau and Excel visualizations
- AWS cloud service

## Technical Roles

- Data Scientist
- Optimization Analyst
- Large Scale Systems Engineering
- Big Data Analyst

## Data Scientist, Operations Analyst, and Systems Engineer

Highly skilled at observing systems, defining problems, and delivering cross functional models and visualizations.

## SELECTED PROFESSIONAL EXPERIENCE – US NAVY (continuous 1994 – 2018)

### Manager, Planner, and System of Systems Engineer

**Mar 2016 – Mar 2018**

- System Engineer. Gathered information, reviewed documentation, consulted with experts, raised relevant concerns & risks, organized integration sessions with multiple customers and guided discussions to integrate new complex system while minimizing conflict between competing interests.
- Servant Leader. Guided team of six through 85% turnover. Identified individual talents and develop strategies to rebuild the core capabilities of the department. Recognized by the director for transformational leadership.
- Operational Security Program Manager. Directed program to monitor and control the release of information. Engaged in external coordination, conducted surveys, distributed targeted guidance, and expanded the scope of the program to include family and friends. Achieved 100% program compliance and increased levels of customer awareness and control measures.
- Additional skills: deliver briefs to senior leaders, mentor new hires, grow vital external relationships and organize events and seminars that cover a range of topics from general to highly technical.

### Aviator – Aviation Student and Professional

**Aug 2006 – Mar 2013**

- Office Manager and Team Leader. Applied experience and skills to define goals, generate tasks and monitor results to optimize production within the office to contribute to squadron goals.
- Data Analyst. Provided prioritized assessments of archived information and real-time external threat updates to a variety of consumers while maintaining records for future analysis.

### Data and Intelligence Analyst/Supervisor

**Feb 1994 – Aug 2003**

- Analytics Supervisor. Analyzed goals provided by leadership, managed, trained and led a variety of teams in the assigning, monitoring, and completion of tasks designed to support the successful accomplishment of the unit's objectives.
- Big Data Analyst. Groomed data from large databases. Imported, groomed, and evaluated the quality of historical data to assist in understanding past behavior, current activity and provide insights into probable future activities.

- Remote Team Leader. Chosen to supervise and lead a team of four on remote assignment for two months. Provided training, packaging of materials, travel to an overseas location, administration, oversaw daily operations, event documentation and return travel. Exceeded expectations for a first-time supervisor with 100% reporting success.

## **Education:**

### **Naval Postgraduate School – M.S. Operations Analysis** **Mar 2013 – Mar 2016**

- Researched and applied predictive analysis, stochastic modeling, model-based systems engineering, machine learning, artificial intelligence, decision theory, big data analysis, linear and non-linear programming using R and Python languages.
- Completed a master's thesis using linear optimization program. Awarded "Outstanding Thesis."

### **National University of Singapore – M.S. Systems Engineering (Defense)** **Mar 2014 – Jan 2016**

Awarded international exchange scholarship to the National University of Singapore. Researched, collaborated, provided modeling data and analysis for the Naval Warfare Integration Division, successfully completed a Master's degree in Systems Engineering.

### **University of Illinois – B.S. Aviation Human Factors** **Aug 2003 – Aug 2006**

Bachelor of Science in Aviation Human Factors with High Honors. Blends physiology, psychology, and system design into an aviation curriculum that allows students to become commercially licensed pilots. Awarded Bronze Tablet 2007 for graduating in the top 3% of the class.

## **Continuing Education:**

### **Galvanize Data Science Fellow** **Jan 2019 - Apr 2019**

Completed 4 case studies using real-world data and capstone project that used python data analysis tools to create a 13-feature estimation model that could be inserted into a Tableau calculated field.

3-month, 700+ hour data science immersive training program covering core data science areas and skills including probability and statistics, databases, machine learning algorithms, and data visualization. Main technologies used: Python, SQL, Pandas, Scikit-Learn, MongoDB, Spark.

### **Galvanize – Data Analytics** **Oct 2018 – Jan 2019**

Completed Analytics work using SQL, Excel, and Tableau showing the current health of aircraft engines using data provided by NASA. Built a replica of a complete analysis suite using Tableau.

## **Certificates:**

SAFe for Teams (4.5) Agile Practitioner