# Jack Anstey

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## EXPERIENCE

**Data Scientist | IT & Digital Analytics | The Boeing Company | Seattle, WA** January 2023 – Present
June – August 2022 (Internship)

- Catastrophic hazard analysis risk modeling to increase airplane safety
  - Designed and developed a data cleaning platform with associated pipelines to output authoritative data to generate models which show how interconnected systems impact airplane safety
  - Developed an internal website, software interfaces (APIs), and Python packages for data verification by non-technical subject matter experts
- Proprietary corporate and third-party data protection
  - Architected a scalable and secure graph database to manage role-based access policies to ensure proprietary data used in data analytics is accessible only to authorized users
  - Scalable to handle any number of total users to view the maximum amount of allowed data possible
- Devised a method to use computer vision in support of freighter cargo utilization
  - Co-developed a patent pending method to use classical computer vision methods to detect cargo and estimate its volume within the airplane cargo bay
  - Simplified approach resulted in $30M savings over modern ML/AI approaches
- Reliable aircraft data transmission and acquisition
  - Developed a patent pending method to reliably transfer aircraft data, for use by data scientists, in global environments with poor wireless connectivity
  - Solution will be implemented across all Boeing production airplanes beginning with 777-8F
- Optimized process to simplify airplane production part installation instructions for technicians
  - Simplified text through a combination of generative artificial intelligence and manual verification results in easy-to-understand instructions, to improve first-pass quality objectives

**Applied Game Theory Science Research Assistant | Emory University | Atlanta, GA** August 2021 – May 2022

- Applied MATLAB to solve multi-dimensional problems, including determining the precise ratio of targeted vs. general suppression that is optimal in a dictatorship

## ACCOMPLISHMENTS

- Patents pending
  - Method for Robust and Secure Air/Ground Data Transport (file no. 18/608008)
  - Systems and Methods for Monitoring Cargo (file no. 18/394853)
- Selected by EuroVis 2023 Conference to submit paper and present poster on visualizing vast amounts of Spotify data to experts in advancing visualization research across Europe (DOI 10.2312/evp.20231066)

## SKILLS

- Proficient in software development using Python, Java, CSS/SCSS, and JavaScript
- Skilled in database systems (SQL, NoSQL)
- Experienced in applying machine learning techniques for data analysis
- Expertise in designing models and schemas for software and databases
- Strong teamwork, communication, research, and writing skills

## EDUCATION

**Emory University**, Atlanta Georgia
*Bachelor of Science in Computer Science, Bachelor of Arts in Math and Political Science Joint Major*
Notable Coursework: Machine Learning, Artificial Intelligence, Database Systems, Information Visualization, Human Computer Interaction