

# Jean Ruggiero

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## Education

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<b>Northeastern University</b> Master of Science in Computer Science	2021
<b>University of Washington</b> Certificate in Python Programming; courses in algorithms, data structures, and statistics	2019
<b>Purdue University</b> Bachelor of Science in Aeronautical and Astronautical Engineering > Designed, fabricated, and tested the world's largest 3D printed aircraft!	2014 GPA: 3.76/4.0

## Professional Experience

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Product Manager	<b>Boeing</b> (Seattle, WA) > Paired with developers to implement flight test computations in Python > Performed user research to identify and prioritize web application usability issues and generated new features to alleviate user pain points > Developed an application using Python to extract, analyze, and visualize data from my team's applications	Oct 2018 – Aug 2019
Flight Test Engineer	<b>Boeing</b> (Seattle, WA) > Analyzed flight test data to develop insights and formulate recommendations for internal customers > Developed applications using MATLAB for real-time data monitoring during flight tests > Mentored team members through coaching of new employees, development of training courses, and regular contributions to internal technical publications	June 2014 – Oct 2018
Engineering Co-Op	<b>Rolls-Royce</b> (Indianapolis, IN) > Developed thermodynamic cycle models for new and novel gas turbine engines using C++ > Generated insights for optimal sizing of engine cooling pathways through a Monte Carlo analysis > Performed statistical analysis of torque tool data to measure manufacturing defect rates	2012 – 2013

## Volunteer Experience

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Head Instructor	<b>Boeing Employees Alpine Society (BOEALPS)</b> > Taught rock climbing fundamentals and safety skills to students and instructors by understanding and accommodating individual learning styles > Executed promotional campaign that increased number of applicants by 50% over previous two years > Automated processing of student application data using Python and Jupyter Notebooks to generate interactive summary reports for admissions committee members	2017 – 2019
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## Skills

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Development	Python, Django, pandas, Jupyter Notebook, C++, JavaScript, HTML, CSS, MATLAB, Git
Product/Design	Jira, Sketch, InVision, user personas, user journey mapping, usability testing
Analytics	Data wrangling, engineering computation, data visualization and presentation
Engineering	Flight test, propulsion & fuels, fluid dynamics, technical writing, LaTeX

## Awards & Honors

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**John Cashman Flight Test Safety Award** (2015): The Cashman Award recognizes one individual or group at Boeing per year that has made an enduring contribution to the advancement of flight test safety

**ASME IAM3D Challenge Best Overall** (2014): The IAM3D Challenge recognizes undergraduate students from around the world who re-engineer existing products or create new designs that minimize energy consumption or improve energy efficiency.

**Purdue University Trustees Scholarship** (2010 – 2014): The Trustees Scholarship is awarded to individuals who demonstrate exceptional academic achievement, leadership, and service in their school and community