

Jean Ruggiero

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Education

Northeastern University Master of Science in Computer Science	2021
University of Washington Certificate in Python Programming; courses in algorithms, data structures, and statistics	2019
Purdue University 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

Product Manager	Boeing (Seattle, WA)	Oct 2018 – Aug 2019
	<ul style="list-style-type: none">> 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	
Flight Test Engineer	Boeing (Seattle, WA)	June 2014 – Oct 2018
	<ul style="list-style-type: none">> 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	
Engineering Co-Op	Rolls-Royce (Indianapolis, IN)	2012 – 2013
	<ul style="list-style-type: none">> 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	

Volunteer Experience

Head Instructor	Boeing Employees Alpine Society (BOEALPS)	2017 – 2019
	<ul style="list-style-type: none">> 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	

Skills

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

John Cashman Flight Test Safety Award (2015): The Cashman Award recognizes one individual or group 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