Jean Ruggiero

jeanruggiero@gmail.com | 908-577-1164 | jeanmruggiero.com | github.com/jeanruggiero

Education

Northeastern University 2021
Master of Science in Computer Science

University of Washington 2019
Certificate in Python Programming; courses in algorithms, data structures, and statistics

Purdue University 2014
Bachelor of Science in Aeronautical and Astronautical Engineering GPA: 3.76/4.0
> Designed, fabricated, and tested the world's largest 3D printed aircraft!

Professional Experience

Product Manager — **Boeing** (Seattle, WA) Oct 2018 – Aug 2019
> 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
> 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
> 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
> 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