

Jean Ruggiero

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Education

Northeastern University

Master of Science in Computer Science

2021

GPA: 4.0/4.0

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

Teaching Assistant **Northeastern University** (Boston, MA) January 2020 – Present
> Coached discrete math students through office hours, grading, and assistance during lectures

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

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

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, C++, Java, JavaScript, React, 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 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