NOLAN SMURRO

Seattle, WA ◇ (206) 249-9346 ◇ nolan@smurro.com

TECHNICAL STRENGTHS

Languages	Python, SQL, R, Latex, HTML, CSS
Skills	Machine Learning, Neural Networks, Predictive Modeling, Visualization, NLP
Tools/ Libraries	Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, Git, TensorFlow, Keras, Tableau

EXPERIENCE

General Assembly   September 2023 - December 2023
Data Science Immersive

· Successfully completed 500+ hours of expert led instruction in Data Science Fundamentals, Statistical Modeling, Machine Learning, Natural Language Processing, and the industry's most in demand technologies.
· Photo Classification Neural Network — Trained a convolutional neural network to classify between film and digital photographs with 85% accuracy and deployed a Streamlit app with Grad-CAM visualizations.
· Reddit Post Binary Classification Model — Created a classification model utilizing Natural Language Processing (NLP) to categorize user posts as houseplant or gardening related content based on post title language with 85% accuracy to be applied to social media platforms to gain insights for advertising campaigns.

BrickRed Systems (Microsoft Research)   September 2022 - July 2023
Mechanical Design Engineer   Redmond, WA

· Led a cross-functional team within the Microsoft Research Hardware Lab, providing electrical and mechanical engineering alongside rapid prototyping services to support Microsoft Research priorities across 10+ projects.
· Collaborated with entomologists, data scientists, and engineers to integrate 3D-printed components into Microsoft Project Premonition's robotic sensing platform which detects, captures, collects, aggregates, and analyzes virus data from mosquitos to predict emerging outbreaks.
· Integrated Power Automate flows with Microsoft Dataverse and Approvals to improve billable hour tracking and case approval workflows within the Microsoft Research Hardware Lab Dynamics 365 CRM environment.

Smurro Design   September 2020 - September 2022
Freelance Mechanical Design Engineer   Seattle, WA

· Prepared CAD Models, Manufacturing Drawings, and Technical Documentation for FAA-PMA manufacturers
· Organized FAA-PMA part certifications to address structural Airworthiness Directive AD2020-18-01 related to doorpost bulkhead and wing strut fitting reinforcement affecting 14,653 registered aircraft in the U.S.

The Landing Gear Works   February 2017 - August 2020
Mechanical Engineer   Renton, WA

· Coordinated certifications and served as point of contact with the FAA Aircraft Certification Office (ACO) and the FAA Manufacturing Inspection District Office (MIDO) for 6 unique STC approvals including titanium main landing gear and tailwheel assemblies for Cessna single-engine aircraft.
· Drafted engineering technical documentation utilizing MS Excel and LaTeX to support FAA certifications
· Oversaw data control/ drawing revisions and FAA minor change submissions for 4 STC/PMA certifications

EDUCATION

General Assembly
Data Science Immersive

Seattle Pacific University
B.S. Mechanical Engineering (Degree to be awarded Spring 2024)