

NICK FORREST

First Lieutenant, United States Air Force

nicholas.forrest.4@us.af.mil ◊ ◊ ◊ 443.326.0889 ◊ ◊ ◊ nickforrest@gmail.com

ABOUT ME

Highly motivated analyst striving to drive positive change through tech innovation and data driven technique. An entrepreneur with endless curiosity, an innate passion for growth, and a competitive ambition to maximize value and efficiency. Outside of the office, I am an avid outdoorsman who appreciates athletics, art, travel, and gaining new perspectives through conversation and experience.

EXPERIENCE

Artificial Intelligence Solutions Architect

April 2020 - Present

DAF AI Cross-Functional Team, Air Force Futures, The Pentagon

Day-to-day responsibilities drive global, enterprise-level AI investment and implementation strategies to democratize AI across all core mission areas and business operations within the Air and Space Forces. This includes tech evaluations, delivery and scaling of AI solutions, and direct communication with DAF senior leaders to ensure AI-enabling technology frameworks, policy and guidance for current and future capabilities. Recognized as winner of the 2020 Vice Chief's "Saving Airmen Time" Challenge.

Operations Research Analyst

March 2020 - Present

United States Department of the Air force

Applying analytical expertise to solve enterprise-level problems. Led pandemic modeling in Pentagon Crisis Action Team, directly providing SECAF/CSAF with analysis to guide DoD response. Personally developed, deployed, and scaled Air Force's go-to COVID-19 decision aid. Recognized as runner-up for 2020 Air Force Company Grade Analyst of the Year.

Manpower, Personnel, and Services Data Science Intern

May 2017 - July 2017

Future Operations Branch, HQ USAF/A1X, The Pentagon

Applied data and analytical skills to make prototype design contributions to the AF Talent Marketplace, a \$50M+ free-market personnel assignment system. Efforts focused on building transparency and increasing attrition rates within the USAF using applied data science and recommendation engines.

RESEARCH AND STUDIES

Master's Thesis, Automated Flight Plan Generation for USAF

February 2019 - March 2020

Prototyped automated flight plan generator for undergraduate pilot training. Research sponsored by the U.S. Air Force's AFWERX and Pilot Training Next programs. Results projected to save instructor pilots 870 hrs/year.

Team Lead, Social Media Image Labeling and Extraction Study

October 2017 - May 2018

Collaborated with the NSA and NGA researching alternate methods of social media image analysis for national security purposes. Applied computer vision algorithms and statistical analysis to better identify threats through social media images. Results published in Gen. Donald R. Keith Memorial Capstone Conference proceedings.

Finance Chatbot Independent Study

December 2017 - May 2018

Chat with StockBot on Facebook Messenger to acquire basic stock information such as current price, volumes, charts and latest news articles.

TECHNICAL STRENGTHS

Analysis Techniques

AI/Machine Learning, Optimization, Statistical Modeling, Decision Analysis, Simulation

Programming Languages & Tools

Python, R, Swift, UiPath, SQL, VBA, MATLAB, JMP, OPL, GAMS

EDUCATION

Air Force Institute of Technology

September 2018 - March 2020

Master's of Science, Operations Research

Dean's Award Winner, Graduate Certificate in Data Science

United States Air Force Academy

July 2014 - May 2018

Bachelor's of Science, Operations Research