Greg Tozzi

Data Science Leader | Former Senior Military Officer

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Professional Profile

Data science consultant and retired senior military officer (Captain, U.S. Coast Guard). Active TS clearance. Empowers clients in the defense and security space to make data-driven decisions. Brings rare mix of sharp technical skills and deep expertise in leadership, operations, policy, and strategy. Leads data science team delivering cloud based machine learning-enabled tools and driving organizational transformation by implementing data governance, and developing citizen data scientists. Project portfolio includes novel applications of deep learning.

Data Science Skills and Projects

Python | R | SQL | Matlab/Octave | Bash
Numpy, Pandas, data.table

Connecting Prediction to Decision Making
- CNAS Report on Prediction in Government Decision Making

ML/Deep Learning for Computer Vision, Natural Language Processing, and Trajectory Prediction
TensorFlow including functional API & custom loss functions, Scikit-Learn, Huggingface, Gensim, inference at the Edge
- Rule5.ai
- Toward Celestial Navigation with Deep Learning
- Detecting Discrimination in Court Documents
- Pediatric Pneumonia in X-Ray Images

Causal Inference and Econometric Analysis
Designing experiments, randomization inference, A/B testing, regression analysis, robust estimation
- Analyzing North Carolina Crime Data
- A/B Testing for Email Fundraising

Visualization
D3, Vega-Lite, Tableau, ggplot2, Shiny, HTML/CSS/JS
- Visualizing San Francisco Bay Vessel Traffic

Cloud
Azure including Azure ML, containerizing endpoints

Social Network Analysis and Graph ML
igraph, Node2Vec

Education

University of California, Berkeley
Master of Information and Data Science (MIDS), 2021
MBA, 2008

Massachusetts Institute of Technology
Fellow, MIT Seminar XXI, 2014-2015
Master of Science, Mechanical Engineering
Master of Science, Naval Architecture & Marine Engineering, 2004

United States Coast Guard Academy
Bachelor of Science, Naval Architecture & Marine Engineering, 1998

Certification

Certified TensorFlow Developer

Additional Strengths

Large organization leadership
Messaging and communication
Managing change
Team dynamics
Project management
Operations
National security and foreign policy

Experience

Lead Associate — Norfolk, VA
Booz Allen Hamilton — 2021 - present
- Technical lead for cross functional team of 10 developers, data scientists, data engineers, cloud architects, and knowledge managers supporting U.S. Army TRADOC G-2. Migrating disparate data stores to the cloud. Develops and delivers cloud based web applications to enable search and discovery across TRADOC's nascent data lake.
- Primary advisor to TRADOC G-2's Data Science Program Manager. Drives strategy development, generates documentations, and briefs executive leadership. Revitalizing dormant governance bodies. Establishing links across the client's enterprise to identify use cases and align outcomes to needs of warfighters and analysts.
- Building citizen data science program including tailored learning paths and regular focused coaching sessions. Developing architecture for self-service analytics platform to enable exploratory efforts with enterprise data.

Executive Assistant to the Assistant Commandant for Acquisition   Washington, DC
U.S. Coast Guard Acquisition Directorate   2019 – 2021
- Chief of staff for the Coast Guard's largest directorate (1,000 military + civilian, $1.7 billion annual appropriation) responsible for acquiring ships, aircraft, and IT systems in support of U.S. Coast Guard mission execution.
- Principal assistant to Rear Admiral (O-8) and executive leadership team consisting of one flag (O-7) and four SES. Chaired Senior Leadership Group (O-6/GS-15s), oversaw staff processes and links to 3- and 4-star leadership.

Commanding Officer   Portsmouth, VA
U.S. Coast Guard Cutter HARRIET LANE   2017 - 2019
- Commanded a Coast Guard cutter with a crew of 100 charged with enforcing laws and treaties and conducting search and rescue from the Gulf of Maine to the Galapagos Islands.
-       Developed data-driven tactics and applied them in ten kinetic drug interdictions and 59 fisheries boardings.
- Guided crew through challenging times including the 2019 government shutdown. Focus on building sense of shared purpose resulted in dramatic improvements in morale and mission execution.
- Taught courses in technical supervision to crew at sea as pro-bono adjunct professor at local community college.
- Won U.S. Interdiction Coordinator's Award (nation's top maritime interdiction unit), Gunnery Award (USCG's best major caliber weapon program), honorable mention for Yeaton Award (service's best cutter).

Senior Military Fellow   Washington, DC
Center for a New American Security (CNAS)   2016 - 2017
- Represented the U.S. Coast Guard at a prestigious Washington, DC think-tank focused on national security policy.
- Conducted research in event forecasting in support of government decision making resulting in published report.
- Facilitator for French Navy team in CNAS-sponsored tabletop exercise on countering Russian asymmetric threats in the Greenland-Iceland-UK Gap.

U.S. Coast Guard Liaison   Washington, DC
Department of State, Bureau of International Narcotics and Law Enforcement Affairs   2014 - 2016
- Key contributor to National Security Council's maritime security strategy for Central America.
- Teamed with interagency partners and international interlocutors to enact and extend diplomatic agreements.
- Secured flag state permission to board trafficking vessels resulting in seizure of over 150 tons of contraband.
- Certified Maritime Drug Law Enforcement Act cases on behalf of Secretary Kerry, enabling 200 prosecutions.
- Invited by UNODC to attend 2016 Expert Group Meeting on Transnational Organized Crime at Sea.

Operations Officer   Alameda, CA
U.S. Coast Guard Cutter BERTHOLF   2012 – 2014
- Oversaw first combined US-Russian multi-national task unit during Exercise Rim of the Pacific 2012.
- Planned & executed the USCG's first operational evaluation of ScanEagle unmanned aerial system.
- Coordinated 12 interdictions involving surface and airborne assets against non-compliant vessels.

U.S. Coast Guard Attaché   Ta' Qali, Malta
U.S. Defense Attaché Office, U.S. Embassy Valetta   2010-2012
- Accredited diplomat charged with advancing U.S. defense and maritime security interests.
- Participated in evacuation of Embassy Tripoli staff, other Americans, and third-country nationals from Tripoli, Libya aboard commercially-chartered fast ferry in February 2011 ahead of Operation Odyssey Dawn.
- Provided subject matter expertise in Monte Carlo-based search and rescue planning and maritime law enforcement to students from Malta, Europe, and Africa.
- Communicated key insights related to maritime security and effects of the Arab Spring to senior policymakers.

U.S. Coast Guard Officer   1998-2010
- Variety of positions at sea, ashore, and on detached assignments in the interagency.
- Designated Cutterman and Surface Warfare Officer. Personal awards include three Meritorious Service Medals, Defense Meritorious Service Medal, and Legion of Merit.