Kathleen Hill

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Former Marine with over 20 years of professional experience including 3 years as a Data Scientist and 10 years as a signals intelligence cryptologic linguist, with Top Secret/SCI security clearance. Demonstrated ability to perform data analysis in support of critical infrastructure risk mitigation, immunoassay experimental data, and the ability to create and implement standard operating procedures in multiple fields. Proven record of skillfully managing multiple concurrent scopes of responsibility while quickly and effectively directing team efforts in a variety of settings. Achieved a Master of Science degree in Data Analytics Engineering at George Mason University, May 2023 and placed second in the 2023 Federal Aviation Administration Data Challenge.

Skills

- Data Analysis/Visualization
- Python/R Programming Languages
- Critical Infrastructure Analysis
- Machine Learning/Artificial Intelligence
- Tabular/Graph Databases
- Documentation/Presentation Development
- Program Management
- Public Speaking

Experience

Data Scientist / Systems, Planning, and Analysis, Inc., Virginia   2022-PRESENT

- Provides critical decision and analytic support to multiple projects within the company's Critical Infrastructure Group, applying quantitative and qualitative methods to solve complex data and analysis problems.
- Provides technical support to the Cybersecurity & Infrastructure Security Agency's (CISA) National Risk Management Center (NRMC) in its mission to assess and reduce risk to national critical infrastructure through the examination of relationships and dependencies across the nationwide infrastructure network. Serves as team leader and technical advisor to coordinate between stakeholders in the development of new and innovative analytical capabilities designed to mitigate risk to Critical Infrastructure, evaluating graph, text, and geospatial data for analytic sufficiency. This includes the development of project and programmatic documentation to support long term product development, the creation of data visualizations to support analysis, and utilization of coding language to support deliverable evaluation. **These efforts directly supported the team's earning both the 2024 CISA Team Award for Innovation and the DHS Secretary's Award for Innovation.**
- Led efforts to examine data structure methodologies and propose improvements to increase effectiveness of analysis and reduction of risk.
- Provided project management through data maturation processes, allocating resources, developing methodology, and reporting of progress via Tableau dashboard, presentations, and regular briefings.
- Collaborated to develop a VBA based tool to capture project evaluation data to support resource allocation decisions.
- Developed reports and white papers in support of multiple research projects, compiling data, and providing recommendations to support strategic planning.

Scientist / Meso Scale Diagnostics, LLC., Maryland   2019-2022

- Independently designed and executed experiments and analyzed the resulting data in support of multiple reagent and assay development projects using spreadsheets and graphing software.
- Conducted laboratory-based testing of protein-based immunoassays on a routine basis and was responsible for documentation in support of testing procedures and providing descriptive statistical analysis via tables, graphs, and other tools for summarizing research results.
- Conducted quality control testing on COVID-19 Serology projects, including the design and revision of testing procedures and documentation, and training of quality control personnel these procedures, and the monitoring of long-term product stability.
- Drafted an application using Shiny from RStudio to analyze experimental data as a basis for further software development.

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Family Readiness Officer / Marine Corps Community Service, Japan   2015-2016

• Served as a direct representative of a battalion's Commanding Officer, providing Family Readiness outreach, support, and assistance to more than 200 military personnel and their families across multiple continents.

• Monitored and maintained Family Readiness fund allocations based on needs of the service members and families within the unit, developing long and short-term cost estimates for program requirements, monitoring overall budget execution, and identifying issues with funds allocations to increase the funds available for use.

• Developed and maintained a Microsoft Access Database of personal contact information for all persons supported in this role, maintaining records of interactions, and safeguarding this information as appropriate.

• Prepared and distributed official information via weekly newsletters, the command website, and other media distributing marketing materials developed and provided by Headquarters Marine Corps and/or MCCS. Delivered briefs and presentations as needed to all levels of personnel and family members.

United States Marine Corps / Multiple Locations, Worldwide   2014 - 2004

Arabic Cryptologic Linguist

• While holding TS/SCI clearance with polygraph, was responsible for translating, transcribing, providing summaries, and identifying essential elements of information within Arabic voice and text data, to identify information of intelligence value and provide timely processing of vital intelligence. During this time took part in two seven-month deployments to Iraq functioning in this role. This language analysis was done in support of both the National Security Agency and the United States Marine Corps counter-terrorism missions and national intelligence requirements.

Military Language Instructor

• Instructed between 8 and 16 service members in Modern Standard Arabic, supervised language material testing within the Arabic Basic Course, served on Academic Review Boards which evaluated student academic performance and determined their career progression options, as well as submitted students for academic awards based on their academic and military performance.

Platoon Commander

• Ensured the daily accountability, welfare, physical training, and administrative needs of up to 74 junior service members, also serving as Unit Representative within language schools for each of these students to monitor their academic performance, acting as a service liaison between the military chain of command and the Defense Language Institute in Monterey, California.

Founder and Treasurer / Bulldog Association, Inc., Maryland   2011-2012

• Incorporated an organization under IRS code 501(c)(7) in Maryland unit general funds, responsible for: creation of organization bylaws, organization Board of Directors, supervision of the conduct and payment of volunteer activities for all members, enhancing online presence and accessibility, arranging donations, as well as the coordination of multiple recreational events for the members of the organization.

Degrees & Certs

Awarded Apr 2025: **Certificate in Data Science and Machine Learning / MIT Institute for Data, Systems, and Society (IDSS)**

Awarded May 2023: **M.S. in Data Analytics Engineering / George Mason University, Virginia**

Awarded August 2019: **B.S. in Biology / George Mason University, Virginia**

Awarded March 2014: **A.A. in Arabic / Defense Language Institute, California**

Awards

• Team placed second in the 2023 Federal Aviation Administration Data Challenge with the project "Proposal for a Modernized Flight Risk Assessment Tool for General Aviation Pre-Flight Planning"

• Letter of Commendation - In recognition of technical support provided to NRMC from 2022-2023

• Outstanding Service Achievements - Systems Planning and Analysis, Inc. (October 2022, May 2023): Awards for efforts supporting multiple government clients.

• MCCS Customer Service Award - Employee of the Year 2016 in Okinawa, Japan

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Volunteer

• Serves as Chair for the Military Operations Research Society (MORS) Junior Analyst Program (August 2024 through present) as well as Co-Chair for the Critical Infrastructure Working Group. This position includes the assignment as an Advisory Director to the MORS Board of Directors.