Brian Cavanaugh

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EDUCATION

GWU

MS IN COMPUTER SCIENCE Dec 2011 | Washington, DC

VIRGINIA TECH

BS IN ENGINEERING

May 2004 | Blacksburg, VA Dual Degree:

- Ocean Engineering
- Aerospace Engineering

Minor in Mathematics

SKILLS

PROGRAMMING

Expert:

Python • Matlab • Bash • IDL Comfortable:

C • C++ • Java • JavaScript Familiar:

MTFX • AWS/C2S • Docker

TECHNICAL

INTERESTS

Data Science • Data Analytics
Data Mining • Big Data
Machine Learning • Computer Vision
Remote Sensing • Multi-Sensor Fusion
App Development

LINKS

Github://jagahanas LinkedIn://bcavs

EXPERIENCE

THE MITRE CORPORATION | June 2007 - Present | McLean, VA DATA SCIENTIST

Tracking Metrics in WAMI data Manmade object detection in images/FMV Human Geography widgets, web server backend, etc Wrote several IDL/ENVI programs for the processing of Hyperspectral Imagery (HSI): FSpECT, a Bayesian evidence combination tool; HSI Exploitation tools for the analysis of crops; "Super Resolution" sharpening, etc Software Evaluation of Hyperspectral Imaging Gas Identification algorithms: HIP, NSOM, HEAT

PROJECT LEADER OF THE GEOINT ANALYTICS PROJECT AREA SUPPORTING THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY RESEARCH (NGA/R) COMPONENT

Managing execution and direction of several tasks totaling 12 STE and representing half of our work within NGA/R. This role involves communicating with the sponsor, ensuring the delivery of the work, balancing the budgets and plans, and managing the many personalities of portfolio and resource divisions. Challenges include: difficult sponsor points of contact, arbitrating resource staff time disputes. Impact: a good reflection on MITRE as leaders and subject matter experts in solving research problems for the government.

GROUP LEADER OF THE DATA ANALYTICS GROUP WITHIN THE INTELLIGENCE, SURVIELLANCE, AND RECONNISANCE (ISR) DEPARTMENT P530

Managing the careers and Human Resources needs of employees at various levels (MTS 2-5), spanning multiple sponsors, portfolios, projects, and tasks. Responsible for seeking to increase the group with more talented candidates through recruitment, interviews, internships, etc. Challenges include: staffing new hires without a project apriori, creating a galvanizing Mission Statement to focus growth around. Impact could include: a motivated, talented, highly skilled group able to attack and solve a variety of Machine Learning, and Data Science problems.

TASK LEAD

• TODO:

NAVAL SURFACE WARFARE CENTER, CARDEROCK DIVISION |

MECHANICAL ENGINEER

Sept 2005 - June 2007 | Carderock, MD

• TODO: