

Ian T. Russell

Cybersecurity Engineering, Architecture & Analysis

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EXPERIENCE

2020-Present **NAVAL UNDERSEA WARFARE CENTER** Newport, RI

Security Architect (June 2021 – Present)

- Authored multiple whitepapers to propose new system security architecture including public key infrastructure design, certificate authority design, multi-factor authentication system design, and situational awareness/incident response procedures
- Led a security architecture working group in order to develop public key infrastructure and digital certificate system requirements
- Developed a revised system of systems security baseline requirements document in order to establish new and attainable system of systems security requirements
- Worked with subsystem representatives to bolster an improved requirements verification, validation, and traceability effort designed to ensure security requirements are met by federated subsystems
- Developed initial test procedures for system of systems network monitoring tools (Navy proprietary)
- Conducted risk assessments (NIST 800-31) for various issues including external data connections and non-volatile memory device handling procedures

Security Researcher (June 2021 – Present)

- Identified and tested multiple binary, firmware, kernel, and source code debloat tools for use in future DevSecOps pipelines
- Developed a simple user web interface for the debloat tools using Python and the Flask framework that increased debloat tool usability and decreased workflow time by 50%

Data Analyst - Contract (December 2020 – June 2021)

- Converted several legacy PDF forms to Confluence webpages for easier ingestion of user input data and simpler processes for data harvesting
- Created visualizations and dashboards for form data to demonstrate the utility of digitization for business operations using Tableau and Python

2020-2021 **TRUECOMMERCE** Hope Valley, RI (Remote)

Electronic Data Interchange (EDI) Analyst (September 2020 – December 2020)

- Analyzed and defined EDI requirements for clients, especially for non-standard needs and circumstances
- Provided advice and education to clients concerning EDI guidelines and capabilities
- Created data mapping documents for integration between supply chain components
- Collaborated with programmers and internal staff to develop and test new or modified systems
- Developed and maintained communication links with trading partners

EDUCATION

2014-2020 **University of Massachusetts, Dartmouth** Dartmouth, MA

BA/BE of Data Science

- Awards: 2020 Capstone honorable mention, 2020 Chancellor's List
- Subjects: Machine Learning, Data Visualization, Data Engineering, Statistics, Calculus, Python, Java, C

SKILLS

- **Tools:** Python, Bash, Flask, pandas, Tableau, Nessus, STIG Viewer, Kerberos, OpenSSL
- **Cybersecurity:** MITRE ATT&CK, NIST CSF, DISA STIG/SRG