

MATT RABURN LCDR, USN

Software Developer | Program Manager | Cryptologic Warfare Officer

matthew.raburn@gmail.com | (901) 517-0395 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

United States Naval Academy | B.S. Computer Science | 2009 - 2013

PROFESSIONAL SUMMARY

Accomplished Naval Officer with over 12 years of technical leadership experience driving innovation in data analytics, enterprise-level systems, and program management. Proven track record of leading cross-functional teams and managing \$100M+ programs. Developed game-changing analytical capability that revolutionized how organizations extract, process, and derive actionable insights from complex data sources, independently coding the solution to uncover previously hidden patterns and relationships. Skilled at translating complex technical concepts for stakeholders and delivering solutions in high-demand environments. Seeking to leverage extensive experience in complex, mission-critical systems within the private sector.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, Ruby, C++, R, SQL, HTML/CSS

Frameworks/Libraries: React, Node.js, OpenCV, RESTful APIs, Express, Flask

Data/Analytics: Data fusion algorithms, Signal processing, Statistical analysis, ETL pipelines, Machine learning

Tools/Platforms: Git, Linux, Docker, PostgreSQL, MongoDB, Tableau, AWS, GCP, JIRA

Domains: Web applications, PWAs, Real-time systems, Large-scale data processing, Metrics/monitoring systems

KEY ACHIEVEMENTS

- Developed web application that revolutionized intelligence analysis where multiple industry teams had failed
- Led 120+ person department executing simultaneous worldwide operations
- Consistently ranked at top of peer group throughout career progression, including "Best Direct Support Officer in 7 deployments"
- Published multiple operational concepts and field guides that were adopted Navy-wide for tactical employment
- Managed \$100M+ technical programs while serving as a senior technical advisor at the Pentagon

PROFESSIONAL EXPERIENCE

Software Developer & Data Analytics Lead

October 2022 - Present

National Reconnaissance Office (NRO) | LCDR

- **Developed groundbreaking analytic web app** that revolutionized IC/DoD intelligence extraction by crafting three novel data fusion algorithms that automate large scale data analysis on complex, heterogeneous data, solving a decade-old capability gap where multiple well-funded contracts had failed
- **Automated complex analytical workflows** that previously required teams of analysts working weeks to complete, reducing process time to minutes while enabling operational capabilities previously deemed unsustainable
- **Led 30+ technical personnel** managing 20+ mission-critical applications with global user base, maintaining high availability through effective outage coordination and rapid incident resolution.
- **Program Manager for multiple technical initiatives** from conception to deployment, including analytics platforms, automated metrics systems, and operational support tools
- **Established enterprise metrics program** publishing 20+ performance indicators, developed web-based dashboard for leadership visibility leading a small team of junior software developers.
- **Authored 45+ strategic articles** demonstrating NRO operational impact, with 7 briefed to ODNI and OSD(I), directly influencing program budgets
- **Conducted extensive IC/DoD training** on novel analytical methodologies, ensuring sustained operational capability

Technical Advisor and Intelligence Planning Officer

January 2019 - October 2022

Pentagon - OPNAV Staff | LT - LCDR

- **Senior Technical Advisor** to Chief of Naval Operations for national intelligence program valued at \$100M+, optimizing resource allocation across multiple stakeholder organizations
- **Developed enterprise-wide training program** operationalizing advanced signal processing and data analysis techniques, dramatically improving technical team productivity and solution quality
- **Created technical documentation and operational field guides** for complex software/hardware systems, achieving widespread adoption across Naval Fleet
- **Authored Congressional Budget Justification Book submissions** receiving exceptional praise from congressional staff on multiple committees

Department Head - Submarine Operations

August 2016 - January 2019

Naval Information Operations Command Georgia | LTJG - LT

- **Led 120+ Sailors and 11 Junior Officers** executing cryptologic operations while deployed around the world in multiple theaters
- **Restructured department operations** achieving 95% retention, 19 promotions, and significant professional development milestones
- **Senior Watch Officer** responsible for 1,300 Sailors and 50+ Command Duty Officers during critical operations
- **Security Program Manager** overseeing classified systems infrastructure with zero security incidents across 3-year tenure

Division Officer - Direct Support Officer

May 2013 - August 2016

Naval Information Operations Command Georgia | ENS - LTJG

- **Served on multiple deployments** aboard submarines leading a 22 member team conducting critical operations around the world
- **Recognized as "Best Direct Support Officer in 7 deployments"** by commanding officer for exceptional tactical advisory capabilities
- **Achieved two advanced certifications in 12 months** well ahead of peers, demonstrating exceptional technical aptitude

CORE COMPETENCIES

Leadership & Management: Cross-functional team leadership | Program management | Strategic planning | Personnel development and mentorship

Technical Expertise: Software development | Systems integration | Data analytics | Metrics development | Operational analysis

Communication: Executive level briefings | Technical writing | Congressional reports | Stakeholder engagement | Training development

PROFESSIONAL DEVELOPMENT

- Information Warfare qualification
- Cryptologic Warfare Officer (1810) designation
- Direct Support Officer - Submarines certification

Security Clearance: TS//SCI with Polygraph (Current) | **Available for opportunities requiring security clearance | Transitioning to Naval Reserves**