TYLER BOSFORD: Skill Bridge Eligible March 9th, 2026

Master Resume

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Summary

Technical Project Leader with 10+ years leading high-pressure technical and operational projects in Special Warfare environments. Experienced in planning, executing, and delivering multi-phased projects across cross-functional teams, technical communications systems, and compliance requirements. Skilled in stakeholder management, risk mitigation, operational efficiency, and project lifecycle management. Proficient in Python, C/C++, Linux, Git, and cloud fundamentals. Active Secret Security Clearance. PMP candidate.

Experience

353rd Special Warfare Training Squadron — TACP Apprentice Course, Technical Project Lead & Compliance Program Lead (Dual-hatted Roles)

July 2024 – Present

- Led multi-phased training programs, coordinating 8 project leads and 40+ staff members to meet all project deadlines, properly manage organizational resources, and maintain a high customer satisfaction rate.
- Facilitated weekly project status meetings with team members and stakeholders to review progress, identify risks, allocate resources, and ensure alignment with project lifecycle and timelines.
- Developed and maintained detailed operational project plans, tracking milestones, resource requirements, and performance metrics to ensure successful execution of multi-phase training exercises.
- Led internal audits and compliance assessments, identifying high-risk areas, and implementing data-driven mitigation strategies.
- Coordinated development, review, and approval of project documentation and program artifacts across multiple departments, managing risks, implementing process improvements, and escalating issues to leadership as required.
- Represented the organization in executive-level briefings, articulating program capabilities, compliance status, and corrective action plans to senior stakeholders across the enterprise.
- Served as the primary liaison between department leadership and enterprise stakeholders, ensuring alignment on program objectives, risks, and remediation efforts.

14th Air Support Operations Squadron — Operations Project Lead

June 2019 – July 2024

- Led a technology modernization project by reorganizing and standardizing a $1.3M technical asset portfolio, improving inventory accuracy, governance, and long-term maintainability.
- Led the planning and execution of 25+ multi-system operational projects, including the deployment of a technical communications network, validating system integration and operational reliability.
- Developed and implemented standard operating procedures, training personnel on new processes to improve reliability and repeatability across projects.
- Led planning and execution using formal operational frameworks aligned with project lifecycle best practices, including initiation, planning, execution, monitoring, and closure.

Operations Projects

Joint Operational Deployment Project

- Directed first-time joint operational deployment, managing scope, budget, logistics, technical network setup, and cross-functional stakeholder coordination, while conducting pre-operation briefings and post-operation reviews to ensure mission success.

Operational Readiness Validation Project

- Led a multi-phase operational readiness project, coordinating personnel, logistics, and equipment for 40+ participants, integrating aviation support, developing execution plans, and establishing cross-functional stakeholder relationships to ensure safe, successful, and repeatable outcomes.

Multi-team Capability Project

- Directed a multi-phase capability validation and training project for three cross-functional teams, developing standardized onboarding programs, integrating new operational capabilities, and coordinating international and interagency stakeholders to ensure mission success and operational readiness.

School Labs/Projects

Stateless Firewall (C++)

- Designed and implemented a stateless layer 3 firewall using a Prefix-Tree (Trie) to manage IPv4 Access Control Lists (ACL).
- Developed a longest-prefix matching algorithm to ensure accurate application of subnet rules handling both broad. CIDR ranges and specific IP addresses.
- Integrated port and protocol level controls into each Trie-node using an unordered map, allowing rapid storage and retrieval of ACL rules per subnet.

Agile Web Application (Team Project)

- Collaborated within a distributed Agile team to plan and develop a web application using weekly sprints and incremental feature releases to meet customer requirements.
- Built frontend components utilizing HTML, CSS, and JavaScript. Coordinated with Scrum team members to meet customer requirements and efficiently release increments.
- Participated in sprint planning, reviews, and retrospectives, contributing to backlog refinement and continuous improvement.

RSA (Python)

- Implemented a full RSA encryption and decryption system including key-generation, Fast Modular Exponentiation, and message encoding.
- Built custom versions of Euclidean Algorithm and Extended Euclidean Algorithm to compute modular inverses and generate secure key pairs.
- Developed brute-force RSA cracker to analyze key strength and demonstrate flaws of weak keys.

Created Shell (C)

- Implemented a UNIX style shell supporting command parsing, job control, background processing, and signal handling (SIGINT, SIGSTP, SIGCHLD).
- Built support for pipes, I/O redirection, and multiple process pipelines using system calls.
- Developed error handling and process state tracking using a custom job list to track PID, foreground/background process, and job lifecycle.

CS Attack Lab (C & Assembly)

- Completed a multi-phase exploitation lab involving analysis of memory-corruption vulnerabilities, buffer overflows, stack smashing, format string bugs, and control-flow hijacking.
- Reversed engineered binaries using GDB, disassembly, and trace execution paths to identify vulnerable functions.
- Crafted custom payloads to overwrite return addresses, inject shellcode, manipulate format specifiers, and redirect program flow to controlled locations.

Additional Notable Labs (C)

- Memory & Paging: Implemented a predictive paging algorithm and standard paging algorithms (LRU, FIFO, OPT) to analyze memory performance and minimize page faults.
- Multithreading & IPC: Built thread-safe producer-consumer system using POSIX threads, mutexes, and conditional variables. Implemented pipes, forks, and custom shells to explore interprocess communication and control.
- Linux Kernel & /proc Exploration: Developed a simple Loadable Kernel Module (LKM) with dynamic memory allocation, logging, and safe insertion/removal. Parsed the /proc file system and explored different Linux Sys Admin duties.

Education

University of Colorado — B.S. Computer Science (Aug 2024 – Present)
Regent University — M.S. Cybersecurity (Oct 2023)
Regent University — B.S. Information Systems Technology (May 2021)
Community College of the Air Force — A.S. Strategic Operations Management (Jan 2025)

Certifications & Skills

Certifications

- CompTIA Security+
- PMP (IN PROGRESS)
- Lean Six Sigma Green Belt / University of Colorado Internship Pathway / Foundational Earned Value Management
- Special Warfare Instructor Qualification Course (SWIQC) / Application of Instructional Systems Design (ISD)
- Azure Fundamentals, CCNA (IN PROGRESS)
- Joint Terminal Attack Controller (JTAC) / JTAC Instructor / JTAC Evaluator

Operating Systems & Tools: Microsoft Office, Linux, Windows, Bash scripting, Git, Jira, Pytest, Ghidra, GDB, Wireshark
Programming & Development: C, C++, Python, Scala, SQL, JavaScript, React, Node.js, Git, Jira, Pytest
Security & Cyber Concepts: NIST frameworks, network monitoring, reverse engineering, cryptography, low-level systems, network fundamentals