

# Ryan Blackburn

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Citizenship: U.S. Citizen

## Career Summary

Computer Science senior and early-career Software Engineer with hands-on experience building Python-based data pipelines, APIs, and analytical dashboards. Strong foundation in software development, system design, and data engineering, with exposure to security and threat intelligence systems. Proven ability to translate complex business problems into technical solutions, backed by 10+ years of investigative and data analysis experience in high-stakes environments.

## Technical Skills

- Programming & Scripting: Python, Java, C++, SQL, Bash
- Software Engineering & Development: API design, modular architecture, Agile (SCRUM), SDLC, MEAN Stack (MongoDB, Express, Angular, Node.js), RESTful services
- Data Engineering & Analytics: Data pipelines, ETL workflows, SQL querying, dashboards, Splunk (SPL)
- Cloud & DevOps: CI/CD concepts, version control (Git/GitHub), Linux environments
- Security & Networking: TCP/IP, Wireshark, log analysis, security monitoring, NIST, RMF, OSINT
- Tools & Technologies: Splunk, MongoDB, Git, Linux

## Professional Experience

**Investigative Analyst / Asset Protection Manager** Wal-Mart | Houston, TX | Dec 2007 – April 2026

- Conducted 100+ complex investigations involving fraud, compliance, and operational risk, leveraging data analysis and pattern recognition to identify anomalies
- Analyzed large datasets using SQL and Excel to detect suspicious activity and generate actionable insights
- Designed and implemented data-driven reporting workflows to support operational decision-making and risk mitigation
- Applied structured frameworks (aligned with NIST principles) to evaluate system vulnerabilities and process inefficiencies
- Produced detailed technical and analytical documentation for stakeholders, improving clarity and response time in investigations
- Collaborated cross-functionally to resolve operational and system-related issues, contributing to improved reliability and reduced downtime

## Technical Projects

**SentinelLite – Threat Intelligence & SIEM Platform**

Apr 2025 – Present

- Designed and developed a modular SIEM platform in Python to aggregate and process threat intelligence from multiple APIs (AlienVault OTX, AbuseIPDB, Shodan)
- Built automated data ingestion pipelines for collection, normalization, and correlation of structured and unstructured data
- Implemented log processing and detection workflows to identify anomalies and security-relevant events
- Developed query and analysis capabilities using SQL and Splunk SPL to support investigation and incident response use cases
- Created interactive dashboards to visualize system health, detection metrics, and data insights

- Applied principles of scalable system design, modular architecture, and data pipeline optimization

## **Core Competencies**

- Software Development & System Design
- Data Engineering & Analytics
- API Development & Integration
- Problem Solving & Technical Analysis
- Cross-Functional Collaboration
- Security Fundamentals & Risk Analysis

## **Education**

**Bachelor of Science in Computer Science**      Southern New Hampshire University | 2023 – 2026

GPA: 4.0 | President's List

**Relevant Coursework:** Data Management, System Design (APIs & architecture), Software Development Lifecycle (SDLC), Agile (SCRUM), Programming (Python, Java, C++), Cybersecurity Foundations

## **Certifications & Training**

**Google Cybersecurity Certificate (2025):** Network security, SIEM (Splunk), incident response, risk management

**Google UX Design Certificate:** User flows, wireframing, prototyping, usability testing

**Wicklander-Zulawski Certified Interrogator:** Fraud & Risk Investigations