

Joshua Thomas

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Education

Tufts University , Medford, MA Bachelor of Science in Computer Science	Sept 2020 – Aug 2024
Phillips Academy Andover , Andover, MA High School	Sept 2016 – May 2019

Professional Experience

Data & IT Associate , Dunton Consulting – NYC, NY	Jan 2026 – Present
- Managed and trained a 3-person team, overseeing project execution, facilitating daily stand-up meetings, and providing hands-on technical troubleshooting support. - Lead technical operations and data processing for client projects, overseeing the life-cycle of data from intake to reporting. - Managed and maintained databases and datasets for various client projects, leveraging API integrations to streamline data analysis and synchronization. - Created an internal application to centralize creations of reports, query all relevant data, and see key metrics leveraging the Parsons python package, Google API, Gemini, and necessary packages. - Developed a Pandas automation to ingest and format daily secure FTP files, replacing manual data transformations and ensuring internal metrics were consistently updated with cleaned and accurate data. - Developed and deployed client-facing interactive data visualization dashboard utilizing Tableau. - Served as the primary IT point of contact for my team, managing hardware deployment, router configuration, static IP assignment, and network troubleshooting for large-scale conventions of over 5,000 attendees.	
Data Director , Mary Sheffield for Mayor – Detroit, MI	May 2025 – Nov 2025
- Provided foundational data management and strategic analysis for Detroit's historic, successful mayoral campaign (first woman elected). - Engineered data synchronization pipelines to maintain the integrity of over 100,000 records across distributed databases (VAN and internal systems), implementing strict data validation and security standards. - Acquired and analyzed key datasets, including polling locations, early voting, and past election datasets, to develop targeted field strategies. - Onboarded, trained, and managed a team of data and field interns, delegating tasks and ensuring data quality control. - Administered database systems, implementing Role-Based Access Control and managing data querying permissions for our team of staff and interns to ensure secure data governance. - Architected automated reporting and quality control workflows by integrating Google APIs, Google App script, Parsons, and VAN, improving processing time and reducing manual errors. - Directed post-election data wrap-up, successfully archiving all critical campaign documents, engagement records, and key datasets.	
Security Engineer Intern , Amazon – New York City, NY	June 2023 – Aug 2023
- Developed a single-page React application using TypeScript for Amazon's internal NIST CVSS calculator, improving the speed of vulnerability assessments by an estimated 30%. - Assessed and triaged over 100 critical and non-critical security vulnerabilities using vulnerability assessment & management techniques to determine risk and priority. - Wrote comprehensive documentation for the vulnerability calculator, enhancing user adoption and team productivity.	

Projects

Global Wiki Analytics Pipeline (Python, Hadoop, Spark, Grafana)	Jan 2026
- Architected an end-to-end distributed streaming data pipeline to intake data from the continuous Wikimedia EventStreams firehose, utilizing a custom Python producer and Apache Kafka to manage large data ingestion. - Developed a PySpark Structured Streaming application to consume, parse, and transform massive JSON payloads in real-time. - Engineered a custom data sync using PySpark's foreachBatch to continuously load processed micro-batches into a PostgreSQL database, serving as the hot-storage layer for real-time analytics. - Designed and deployed a live Grafana monitoring dashboard connected to the PostgreSQL instance, visualizing complex time-series data and system metrics.	
Network Monitoring Dashboard (Python, Bash, Tailscale, Prometheus, Grafana)	Sept 2023 – May 2024
- Engineered a custom dashboard using Prometheus and Grafana to provide real-time, user-centric network performance monitoring. - Deployed a Raspberry Pi with a Python script leveraging threading to simulate user activity and concurrently execute data collection tasks. - Automated the deployment process for new monitoring nodes with a comprehensive Bash setup script and secured data transmission between nodes using Tailscale.	

Skills and Technologies

- Languages:** Python, C++, C, TypeScript
- Frameworks & Libraries:** React, Hadoop, Spark
- Tools & Technologies:** Git, Qualys, VulnDB, Prometheus, Grafana, Tailscale
- Security & IT Frameworks:** NIST RMF, MITRE ATT&CK, COBIT
- Core Competencies:** Object-Oriented Programming (OOP), Vulnerability Assessment & Management, Cyber Policy Development, Database Infrastructure, Data Analysis, Process Optimization, Cybersecurity Principles
- Certificates:** Google Cybersecurity Professional Certificate