

# JACOB SMYTHE

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## SUMMARY

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**Information Technology** undergraduate with a track in **Network Security** (Towson University) specializing in Digital Security and Systems Administration. Offers 4+ years of experience maintaining the integrity of financial endpoints, including POS, lottery, and mobile systems. Proven track record of high-stakes troubleshooting. Seeking a internship to apply a security-first mindset successful test execution.

## PROJECTS

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### **TraceLedger (Velsics.com), Personal Project** 2026

- Engineered a local-first forensic review application using Tauri (Rust/React) and a Python sidecar to ingest, normalize, and securely reconstruct AI-artifact activity timelines.
- Developed a Next.js control plane on Vercel, integrating Neon Postgres, Stripe, and WorkOS to automate identity verification, subscription lifecycles, and entitlement gating.
- Architected resilient system boundaries ensuring that network or authorization failures gracefully degrade the application to a read-only state, maintaining absolute evidence integrity for audits.

### **Systems Administration & Infrastructure Management,** 2024

*Personal Project*

- Architected and deployed a virtualized server environment utilizing Proxmox and Docker to manage multiple concurrent services efficiently.
- Monitored system resources and optimized hardware allocation, translating technical constraints into streamlined, resource-efficient infrastructure solutions.
- Maintained detailed configuration documentation and implemented process improvements for automated service deployment, mirroring the analytical rigor needed for cost modeling.

### **Lead Systems Analyst, ITEC 411 Project** 2026

- Developed a proof-of-concept for a "smart" tablet guide system designed to streamline visitor flow and information accessibility.
- Conducted a feasibility study and risk analysis for integrating mobile hardware into a high-traffic public environment.
- Presented a strategic implementation roadmap to faculty "stakeholders," simulating a professional procurement and deployment lifecycle.

### **Presidential Data Tracker, ITEC 211 Project** 2025

- Architected and deployed a responsive web application designed to aggregate and visualize complex political datasets, ensuring high data integrity and real-time accessibility.
- Developed data-tracking schemas to monitor fluctuating metrics, demonstrating the ability to manage large volumes of information and translate them into actionable insights.
- Optimized front-end architecture for a seamless user experience, focusing on clear data presentation and streamlined navigation for complex information sets.

## TECHNICAL SKILLS

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### Cybersecurity/Forensics:

Threat & Vulnerability Assessment, Network Security, Incident Detection & Response, Risk Management, Digital Evidence Integrity, Identity & Access Management (OIDC/WorkOS).

### Infrastructure/Tools

Linux, Docker, Proxmox (Virtualization), Vercel, Neon Postgres, Stripe Billing API, Microsoft Office Suite

### Languages/Frameworks

Python, SQL, Rust, React, Next.js, Tauri

### Operations/Systems Analysis

Systems Architecture, Feasibility Studies & Risk Analysis, Automated Deployments, Resource Optimization, Technical Documentation & Schema Design.

## EDUCATION

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**Towson University**, *Bachelor's (in progress), Information Technology*

08/2024 – 12/2026

GPA: 3.53

**Cecil College**, *Associate Degree, General Studies*

01/2020 – 09/2023

GPA: 3.47

## EXPERIENCE

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**Towson University**, *Test Proctor*

09/2024 – Present

- Enforced strict compliance policies and maintained the security of confidential examination environments, documenting incidents per state and university protocols.

**State Line Liquors**, *Stock Clerk*

01/2022 – 09/2024 | Elkton, MD

- Acted as frontline technical support by troubleshooting point-of-sale (POS), lottery, and mobile endpoint systems to maintain operational continuity

**Acme Markets**, *Customer Service*

05/2020 – 01/2022 | Newark, DE

- Executed secure, regulated financial transfers and coordinated directly with vendor IT to report and resolve recurring hardware and checkout system outages.