

# Nathan Daniel

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## EDUCATION

### Lipscomb University

*B.S. Cybersecurity*

Nashville, TN

*Expected May 2028*

## EXPERIENCE

### Lipscomb University

*IT Help Desk Technician*

Nashville, TN

*Aug 2025 – Present*

- Provided **Tier 1 technical support** for Windows, macOS, Wi-Fi, software, account access, and peripheral issues for students, faculty, and staff
- Resolved password, account lockout, and MFA (Multi-Factor Authentication) issues while diagnosing hardware, software, and network incidents through the IT ticketing system

### Ethiopian Community Association of Nashville

*Coding Instructor / Volunteer Mentor*

Nashville, TN

*May 2025 – Aug 2026*

- Taught **Python fundamentals** including variables, conditionals, loops, functions, and debugging through hands-on exercises
- Mentored students through programming projects, providing individualized debugging support and teaching structured problem-solving

## PROJECTS

### Airline Standby Flight Viewer | *Python, FastAPI, SQLite*

2026

- Reverse-engineered a **53,000+ class Android APK** with jadx and Frida, documenting **8+ authenticated endpoints** for availability, standby lists, and upgrades
- Reproduced mobile-client **TLS and HTTP/2 fingerprints** and maintained persistent authenticated sessions through stable device and application identities
- Built a FastAPI dashboard streaming **50+ concurrent searches** via SSE with **88+ aircraft mappings** and a 30-level standby priority model

### Ramp Team Flight Optimizer | *Python, React, OR-Tools*

2026

- Built a full-stack scheduling application optimizing staffing, qualifications, shifts, breaks, and workload across ramp operations
- Implemented **17 prioritized optimization objectives**, achieving a **19-second median runtime** on an 18-employee, 18-flight benchmark
- Developed a FastAPI/SQLite backend and React/TypeScript dashboard for data imports, optimization jobs, and schedule review

### Cloud Security Posture Dashboard | *Go, React, AWS*

2025 – Present

- Built a CSPM (Cloud Security Posture Management) dashboard detecting **40+ misconfigurations across 10 AWS services** and mapping findings to major compliance frameworks
- Implemented concurrent Go scanning, attack-path analysis with **MITRE ATT&CK mappings**, and per-request AWS credentials with no persistent storage
- Built Terraform test infrastructure provisioning intentionally misconfigured resources across **10 AWS services** for end-to-end validation

## LEADERSHIP & INVOLVEMENT

### Lipscomb Cyber Defense Club | *Officer – workshops, technical exercises, and club events*

2025 – Present

## TECHNICAL SKILLS

**Languages:** Python, Go, JavaScript, TypeScript, Bash | **Tools:** FastAPI, React, SQLite, Git, Linux, Docker  
**Cloud/Security:** AWS, Terraform, Burp Suite, Frida, jadx, Wireshark, Nmap