

# TERRELL LANCASTER

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## Profile

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FULL-STACK SOFTWARE ENGINEER & CLOUD SECURITY ARCHITECT  
CompTIA Security+ (SY0-701) | DoD 8140 IAT Level II Certified  
Top Secret Clearance Eligible | Previous Secret (U.S. Army Veteran)

9+ years engineering secure, mission-critical applications for enterprise and government environments. Proven expertise in cloud-native architecture (GCP/Firebase), DevSecOps pipelines, and AI-integrated systems. Built defense-in-depth security frameworks aligned with NIST RMF and Zero Trust principles. Seeking to leverage full-stack development and security operations experience to support national defense technology initiatives.

## Links

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GitHub: [github.com/tlancas25](https://github.com/tlancas25)

## PROFESSIONAL EXPERIENCE

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### **Full-Stack Developer & Cloud Architect, FRETUM-FREIGHT TMS | 40+ hrs/wk**

Jan 2025 — Present

Designed and developed enterprise-grade, cloud-native Transportation Management System (TMS) implementing secure multi-tenant SaaS architecture serving freight and logistics industry.

#### **COORDINATING SOFTWARE WORK:**

- Architected full-stack application using Next.js 15, TypeScript, and React 18 with server-side rendering, establishing coding standards and technical direction.
- Designed reusable component library with Shadcn/UI and Radix UI primitives, enabling consistent UI patterns across 50+ components.
- Implemented RESTful API layer with Zod schema validation ensuring type-safe data contracts between frontend and backend services.
- Led integration of 5 ELD providers (Samsara, Motive, Geotab, Omnitracs) through unified provider interface, standardizing OAuth 2.0 authentication flows.

#### **RUNNING PROJECTS END TO END:**

- Delivered complete TMS from concept to production deployment on GCP infrastructure.
- Planned tiered feature rollout across 4 subscription levels (Trial, Starter, Professional, Enterprise) with configurable feature gating.
- Configured CI/CD pipeline using Firebase App Hosting with automated preview deployments and environment-based configuration management.
- Tracked technical risks and implementation milestones using structured project documentation and version control (GitHub).

#### **SOLVING PROBLEMS WITH SECURE, SCALABLE SOLUTIONS:**

- Implemented defense-in-depth security architecture: Cloud Armor WAF with OWASP Top 10 rules, DDoS mitigation, VPC with Cloud NAT for network isolation.
- Built 5-tier RBAC system (Admin, Dispatcher, Driver, Accountant, Viewer) with Firebase Authentication, OAuth 2.0, and JWT token management.
- Configured encryption at rest (AES-256) and in transit (TLS 1.3) with secure session management (HttpOnly cookies, 1-hour active/24-hour idle lifetime).
- Designed auto-scaling serverless architecture using Cloud Run (1-10 instances, 80 concurrent requests per instance) handling variable traffic loads.

#### **EXPLAINING TECHNICAL IDEAS:**

- Created comprehensive SECURITY.md documentation detailing threat model, security controls, and incident response procedures for stakeholder review.
- Documented API specifications with endpoint descriptions, authentication requirements, and example payloads for developer onboarding.
- Designed system architecture diagrams illustrating data flows, security boundaries, and integration points for technical and non-technical audiences.

#### **AI-ASSISTED DEVELOPMENT:**

- Integrated Google Genkit with Gemini 2.0 Flash for intelligent document processing, achieving 90-98% field extraction accuracy on rate confirmations.

### **IT Operations Manager & Lead Architect, DRIVE ON TRANSPORTATION LLC | 70+ hrs/wk, Las Vegas**

Aug 2022 — Jan 2025

#### **COORDINATING SOFTWARE WORK:**

- Managed the organization's full technology stack, architecting the internal logic for the "Focus Freight" proprietary software to replace legacy manual workflows.
- Administered Google Workspace and Slack environments, coordinating user identity (IAM) and access groups for a distributed workforce of remote drivers and dispatchers.

#### **RUNNING PROJECTS END TO END:**

- Executed a cloud migration strategy, moving on-premise data storage to Google Cloud Storage with lifecycle management policies, reducing costs by 20%.
- Led the deployment of hardware assets (ELD tablets, laptops) across 48 states, managing procurement, provisioning, and MDM configuration from start to finish.

#### **SOLVING PROBLEMS WITH SECURE, SCALABLE SOLUTIONS:**

- Maintained 99.9% system uptime for critical logistics dispatch software; diagnosed and resolved network connectivity issues within a strict 15-minute SLA window.
- Secured the hybrid network environment using Cisco Meraki firewalls, configuring Site-to-Site VPNs and VLANs to protect business data from external threats.

#### **EXPLAINING TECHNICAL IDEAS:**

- Translated complex technical issues (API failures, GPS latency) into plain English for non-technical drivers and operations staff to facilitate rapid troubleshooting.
- Developed Standard Operating Procedures (SOPs) for data entry and cybersecurity hygiene, training staff on recognizing phishing vectors and proper data handling.

#### **Technical Operations Lead, SIMPLY VEGAS REAL ESTATE | 60+ hrs/wk, Henderson**

Nov 2017 — Aug 2022

##### **COORDINATING SOFTWARE WORK:**

- Served as the Salesforce CRM Administrator, managing data schemas and third party integrations to streamline lead generation workflows for a high-volume sales team.

##### **SOLVING PROBLEMS WITH SECURE, SCALABLE SOLUTIONS:**

- Provided Tier 2 "White Glove" support for executive staff and VIP clients, resolving mobile connectivity and hardware issues under strict time constraints.
- Managed web operations for property landing pages, optimizing HTML/CSS for load speed and ensuring SSL compliance for secure user browsing.

#### **Human Resource Operations Manager (NCOIC), U.S. ARMY | 40+ hrs/wk**

Jan 2004 — Jan 2012

##### RUNNING PROJECTS END TO END:

- Managed personnel security and logistics for 1,500+ troops. Maintained 100% accountability of \$2M+ in sensitive technical assets and classified material during global deployments.

## **EDUCATION**

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### **Western Governors University**

B.S. Cybersecurity and Information Assurance, Mar 2025 — Present

Relevant Coursework: Secure Software Design, Cloud Security Architecture, Network Defense, Identity & Access Management.

## **CERTIFICATIONS**

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### **CompTIA Security+ (SY0-701) (Jan 2026)**

DoD 8570 IAT Level II Compliant

### **CompTIA Network+ (Dec 2025)**

### **CompTIA A+ (Dec 2025)**

### **ITIL® 4 Foundation**

## **SECURITY CLEARANCE**

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### **Eligibility**

Ability to Obtain Top Secret (Previously held Secret Clearance - U.S. Army)