ALLFIN AHSAN

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PROFESSIONAL SUMMARY

AI Engineer with production experience across software companies and enterprises. At Cars4Sure, architecting a 400,000+ line platform using multi-agent systems, MCP integrations, and AI-native development methodology. At Titan America, deployed 7 AI agents across 7 departments using Microsoft Copilot Studio, reducing support tickets by 40%. Background in production infrastructure (350+ users, monitoring systems, automation) provides the operational reliability thinking that makes AI systems work in production. Security+ certified.

PROFESSIONAL EXPERIENCE

AI Engineer
Cars4Sure | Remote | Late 2024 – Present

• Architected and built 400,000+ lines of production code for core platform using AI-native development methodology
• Designed multi-agent architecture with specialized Claude subagents for database, frontend, testing, and security review domains
• Implemented MCP (Model Context Protocol) integrations connecting AI workflows with external tools and codebase synchronization
• Built 50,000+ line PostgreSQL schema with row-level security, real-time subscriptions, edge functions, and multi-tenant isolation
• Engineered context management system with structured documentation and optimized instructions for reliable LLM parsing
• Deployed on Vercel with GitHub Actions CI/CD, maintaining production stability across rapid iteration cycles

AI Automation Consultant
Freelance | Remote | October 2023 – Present

• Designed and deployed conversational AI agents for client businesses using Claude API, OpenAI, and LangChain
• Built custom automation workflows integrating AI with existing business tools, reducing manual processing by 50-70%
• Implemented document processing and knowledge base systems using RAG architectures for multiple clients
• Consulted on AI adoption strategy, helping businesses identify high-impact automation opportunities

Windows System Administrator
Titan America | Deerfield Beach, FL | October 2023 – Present

• Deployed 7 AI agents across HelpDesk, Sales, Operations, Customer Service, Procurement, Accounting, and Credit using Microsoft Copilot Studio
• Integrated agents with SharePoint knowledge bases and Microsoft Teams, engineering personality calibration and comprehensive guardrails
• Reduced IT support ticket volume by approximately 40% through AI-assisted self-service and intelligent routing
• Developed Python and PowerShell automation reducing manual provisioning workflows by 40%
• Built real-time monitoring infrastructure with InfluxDB, Grafana, and Prometheus for 350+ user environment
• Architected Azure Active Directory migration and implemented 5-VLAN network segmentation with zero inter-VLAN leakage

Jr. System Administrator
Innovative IT Solutions, Inc. | Miami, FL | March 2021 – October 2023

- Designed automated deployment pipelines reducing provisioning time by 60% across 200+ endpoint environment
- Managed Active Directory with Group Policy automation, reducing support escalations by 30%

TECHNICAL SKILLS

AI & LLM Engineering: Multi-Agent Systems, Microsoft Copilot Studio, Claude API, MCP, Prompt Engineering, Context Engineering, LLM Orchestration, RAG, AI Guardrails & Governance, Agentic Workflows

Full-Stack Development: Next.js, React, TypeScript, JavaScript, Tailwind CSS, Supabase, PostgreSQL, Row-Level Security, Real-Time Systems, Vercel, REST APIs

Automation & Programming: Python, PowerShell, Bash, SQL, LangChain, API Integration

Infrastructure & Cloud: Azure (AD, Intune), Docker, GitHub Actions, Grafana, InfluxDB, Prometheus, Proxmox, Linux, Windows Server

Security & Networking: Security+ Certified, VLANs, WireGuard VPN, Active Directory, Group Policy, Zero-Trust Architecture

KEY PROJECTS

Enterprise AI Agent Deployment — Designed 7 production AI agents serving multiple departments with SharePoint integration, personality calibration, topic boundaries, and human handoff protocols. Achieved 40% ticket reduction through intelligent self-service.

Cars4Sure Platform — Core platform built with AI-native development: multi-agent architecture, MCP integrations, 50K line database schema with RLS, trust scoring, billing systems. 400K+ lines of production code.

Production Infrastructure Lab — Multi-VLAN network with Proxmox virtualization, real-time Grafana monitoring, WireGuard VPN, and zero inter-VLAN leakage security architecture.

CERTIFICATIONS

CompTIA Security+ (Valid through 2027) | Microsoft Azure Fundamentals (AZ-900) | Azure Administrator (AZ-104) — In Progress

EDUCATION

Bachelor of Science in Computer Science

University of Miami