

Douglas K. Kongolo

FULL STACK SOFTWARE ENGINEER | AI ENGINEER | PRODUCT BUILDER

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with experience building and deploying AI-powered web applications, REST APIs, databases, and production infrastructure. Founder and lead engineer of Triple H AI, owning product architecture, React frontend development, Python FastAPI/Flask backend services, SQLite data design, Linux deployment, and OpenAI API integration. Experienced in .NET Core, C#, SQL Server, authentication, API design, infrastructure troubleshooting, and independent feature delivery.

TECHNICAL SKILLS

Languages	Python, C#, JavaScript, TypeScript, SQL, T-SQL
Frontend	React, ASP.NET MVC, Razor Pages, HTML5, CSS3, Bootstrap 5, Responsive Design
Backend & APIs	FastAPI, Flask, .NET Core 8, ASP.NET Core, Entity Framework Core, RESTful APIs, Web Services
AI & Automation	OpenAI API, LLM Integration, Conversational AI, Prompt Engineering, AI Workflow Automation
Data	SQLite, SQL Server, MySQL, Stored Procedures, Query Optimization
Infrastructure & Tools	Linux Server Administration, Docker, Git/GitHub, Azure DevOps, Postman, Swagger, PowerShell, Active Directory, VMware Horizon

PROFESSIONAL EXPERIENCE

Founder & Full Stack AI Engineer | Triple H AI

2024 - Present

Fort Worth, TX / Remote

- Architected and developed an AI-powered SaaS platform from concept through production, owning frontend, backend, APIs, database, infrastructure, releases, and product direction.
- Built responsive user interfaces and administrative dashboards with React.
- Developed Python services with FastAPI and Flask, exposing RESTful APIs for analytics, automation, account workflows, and frontend integration.
- Designed SQLite data models for users, roles, subscriptions, AI workflows, reporting, and trading-signal operations.
- Integrated the OpenAI API to create Samantha, a conversational assistant providing contextual platform support.
- Administer a Linux production server, including deployment, service management, configuration, updates, monitoring, and troubleshooting.
- Delivered event-driven processing, automated email reports, authentication, role-based access, and multi-product platform capabilities.

Senior Network Technician | Lockheed Martin via Acara Solutions

Jul 2026 - Present

Fort Worth, TX

- Support enterprise network infrastructure and troubleshoot Layer 1-3 connectivity issues in a large, security-sensitive environment.
- Validate data jacks, patching, switch-port status, cabling, VLAN connectivity, and endpoint access; document findings and resolutions in service tickets.
- Collaborate with technical teams to restore service, support infrastructure deployments, and maintain reliable network operations.

PROFESSIONAL EXPERIENCE - CONTINUED

Information Technology Specialist / Program Analyst | U.S. Small Business Administration

Oct 2022 - Jun 2026

Fort Worth, TX

- Developed and maintained full-stack applications using .NET Core 8, C#, ASP.NET MVC, Razor Pages, and Bootstrap 5.
- Designed and optimized SQL Server databases; wrote and troubleshoot T-SQL queries, stored procedures, and performance improvements.
- Developed and consumed RESTful APIs using .NET 6 and .NET Core 8 for frontend and backend communication.
- Implemented authentication and authorization with ASP.NET Identity and Entity Framework Core.
- Improved application security, maintainability, and performance while supporting Windows, Microsoft Office, and network issues.

Information Technology Support Analyst | Pyramid Consulting Inc.

May 2022 - Oct 2022

Alpharetta, GA

- Managed Active Directory and Azure user accounts in secure enterprise environments.
- Resolved software, application, access, and network incidents for end users.
- Automated recurring IT support tasks with PowerShell, improving workflow consistency and ticket resolution.

Computer Repair Technician L3 | TROX & TIERNET

Nov 2021 - May 2022

Irving, TX

- Audited, refurbished, repaired, and salvaged desktops, laptops, and components for resale or redeployment.
- Performed hardware replacement, PC imaging, configuration, testing, and quality validation in a high-volume environment.
- Built and configured custom computers according to client and operational requirements.

Business Analyst - Pandemic Unemployment Assistance | MPATHIC

Aug 2021 - Oct 2021

Irving, TX

- Processed complex unemployment claims using mainframe systems and documented eligibility findings.
- Created reference materials, trained staff on workflows, and supported claimants through phone and system tools.
- Supported secure remote access using VMware Horizon and RSA SecurID.

Unemployment Support Business Analyst | VSO (Virtual Service Operations)

Sep 2020 - Aug 2021

Irving, TX

- Provided technical and analytical support for unemployment claims and secure remote-access environments.
- Supported a VA hospital infrastructure upgrade by installing and configuring network equipment, coordinating migrations, and restoring services.
- Managed end-user communication through Slack, inbound calls, VMware Horizon, RSA SecurID, and Verizon InContact.

SELECTED PROJECT

Triple H AI Platform

AI-powered analytics, automation, and user assistance

React frontend; Python FastAPI/Flask backend; SQLite database; REST API architecture; Linux production server; OpenAI-powered Samantha assistant; event-driven signal processing; automated reports; authentication and role-based access. [View project](#)

EDUCATION & CERTIFICATIONS

Associate of Applied Science, Information Technology - Programming
Tarrant County College | May 2022

Bachelor of Science, Agriculture
University of Kinshasa | Oct 2009

AWS Certified Cloud Practitioner
Microsoft Certified: Security, Compliance, and Identity Fundamentals
Cisco Certified Technician - Routing and Switching

ADDITIONAL INFORMATION

Languages: English (Fluent), French (Fluent), Lingala (Fluent)