

# Alex Haas

New York, NY  
alex-haas.com | mralexhaas@gmail.com | 253-509-8550

## Platform / Infrastructure Engineer

Distributed Systems • Infrastructure Automation • Backend Systems

## Technical Summary

Platform and infrastructure engineer with 20+ years of experience designing and operating enterprise systems across Linux infrastructure, networking, backend services, and automation. Proven ability to architect distributed systems, integrate legacy platforms with modern APIs, and build automation frameworks that significantly improve operational efficiency. Currently developing an AI-driven behavioral analytics platform leveraging modern backend and data technologies.

## Core Technologies

**Languages:** Python, PowerShell, TypeScript, JavaScript, C, C++, C#, SQL, Bash  
**Backend / APIs:** FastAPI, REST APIs, Node.js  
**Data Systems:** PostgreSQL, Neo4j, Redis, MongoDB  
**Infrastructure:** Linux (RHCSA), Docker, AWS EC2, networking, virtualization  
**Distributed Systems:** RabbitMQ, event-driven architecture, asynchronous processing  
**Tools:** Git, Wireshark, Nginx, Visio, automation scripting

## Professional Experience

### Senior Professional Application Designer (Systems Engineering)

Gainwell Technologies – Medi-Cal Account (2021–Present)

- Architected and deployed an enterprise backup and disaster recovery system using Linux-based NetBackup (master/media) and ExaGrid.
- Designed a dedicated backup network (BUR) with VLAN segmentation, dual-NIC server architecture, and switch-level routing.
- Designed RESTful APIs integrating IBM CA-MMIS mainframe systems with modern call center applications.
- Diagnosed latency issues using packet-level analysis (Wireshark), improving system performance.
- Developed a PowerShell GUI tool for large-scale claim retrieval, reducing processing time from days to minutes.
- Built a test generation framework converting CSV data into OCR-ready PDFs, increasing throughput by 1000%.
- Led Sev-1 incident response across multi-vendor teams.
- Developed automation tools in PowerShell and Python.

### Network Engineer

TAUTO MSP – New York, NY (2021)

- Installed networking infrastructure across 7+ hotel properties.

- Performed full-stack network troubleshooting.
- Deployed Linux and Windows servers.
- Maintained connectivity across distributed environments.

## Technical Projects

### Socraites – AI Behavioral Insight Platform

- Architected full-stack platform using FastAPI, Next.js, PostgreSQL, Neo4j, Redis, RabbitMQ.
- Designed hybrid relational + graph model.
- Implemented async pipelines with AI-driven reasoning.

### Home AI Infrastructure

- Built GPU-based local AI inference server.
- Designed Docker-based backend services.

### Web Platform

- Deployed alex-haas.com using Next.js on AWS EC2 with Nginx.
- Built automation scripts for system orchestration.

## Certifications

- RHCSA
- CompTIA Security+
- CompTIA Network+