# **Alex Haas**

Location: Manhattan, New York | Phone: 253.509.8550 | Email: mralexhaas@gmail.com

Website: alex-haas.com | GitHub: github.com/maimedlord

## **SUMMARY**

Strategic and execution-driven engineer with over a decade of real-world engineering experience, backed by a lifetime of technical curiosity and execution. Currently focused on full-stack systems, infrastructure architecture, and Al-powered platforms. Builder of an advanced behavioral tracking system using FastAPI, PostgreSQL, Neo4j, Redis, and RabbitMQ - designed for real-time insights, distributed pattern recognition, and extensibility. Skilled in both Linux and Windows environments, cloud architecture, and automation pipelines. Proven ability to lead projects end-to-end, combining speed, depth, and clarity in delivery.

## **CERTIFICATIONS**

Red Hat Certified System Administrator (RHCSA), CompTIA Security+, CompTIA Network+, Pursuing Red Hat Certified Engineer (RHCE)

## **TECHNOLOGY FOCUS AREAS**

Architecture & System Design: FastAPI, PostgreSQL, Redis, Neo4j, RabbitMQ, MongoDB

Infrastructure & Automation: Linux (RHEL/Ubuntu), Windows Server, Docker, PowerShell

Cloud & Networking: AWS (EC2, S3), Active Directory, Azure AD, TCP/IP, On-premises networks

Programming: Python, Bash, PowerShell, C++, C#, TypeScript, JavaScript, React, Next.js, Flask

Al & ML Integration: OpenAl API, Insight modeling, Predictive feedback loops

Tools: Git, custom Chrome/Edge extensions (Chromium)

## **PROFESSIONAL EXPERIENCE**

## **Gainwell Technologies LLC**

Sr. Software / Systems Engineer (Title: Sr. App Designer)

Feb 2022 - Present

- Developed and supported an OCR application in ISL (C-based), used in compliance with Medi-Cal and HIPAA standards.
- Designed and implemented backup & recovery architecture using ExaGrid appliances.
- Automated enterprise-scale workflows in PowerShell, improving operational efficiency in Active Directory environments.
- Administered both Linux and Windows systems across multiple production-critical deployments.
- Worked directly with clients to gather and define requirements for secure and scalable solutions.
- Designed REST APIs to facilitate service integration across infrastructure components.
- Created custom Chromium browser extensions written in JavaScript to streamline internal workflows and improve user productivity.
- Supported production monitoring and incident response for high-availability healthcare applications.

#### Teleautomation Inc.

#### **Network Engineer**

Oct 2021 - Feb 2022

- Installed complete network stacks (firewalls, switches, cabling) for high-density hospitality and commercial locations.
- Served as SME for Bitdefender GravityZone, overseeing hotel cybersecurity operations.
- Diagnosed TCP/IP failures across multi-vendor enterprise networks.

# Top Knobs / Watermark Designs

**IT Support Specialist** 

- Jun 2021 Sep 2021
- Supported hybrid environments (Azure AD + on-prem AD), resolving tickets under strict SLA.
- Preprocessed data using Python to enhance analytics and reporting accuracy.

## **FEATURED PROJECT**

Founder & Sole Architect/Developer – Al Behavioral Insight Platform (Full-stack, self-directed) 2025 – Present

- Designed, built, and optimized a full-stack platform from the ground up, acting as sole engineer and architect.
- The system integrates AI, behavioral modeling, and real-time analysis using FastAPI, PostgreSQL, Neo4j, Redis, RabbitMQ, and OpenAI APIs.
- Tracks user actions, thoughts, emotions, and physical states via a unified input interface (voice + text).
- All engine surfaces patterns, subconscious behaviors, and predictive feedback based on tracked data.
- Modular, extensible architecture supports wearable and third-party integrations (e.g., Strava, fitness apps).
- Engineered complex deduplication, syncing logic, and automatic correction feedback loops.
- Designed for high scalability and future ML insight training based on user-labeled sequences.
- Currently leading all system design, infrastructure, backend implementation, and insight modeling.

## **EDUCATION**

Hunter College, New York, NY **B.A. in Computer Science, Cum Laude** – May 2021

Relevant Coursework: Ethical Hacking, Digital Forensics, Networking Theory

University of Washington, Tacoma, WA Psychology Studies (Pre-transfer coursework)

## **ADDITIONAL HIGHLIGHTS**

Committed to continuous learning and staying ahead of technological trends.

Adept at translating abstract ideas into working prototypes with minimal resources and extreme speed.

Highly experienced in working with both technical and non-technical stakeholders to deliver real-world solutions.