

# Jeremy Brinkworth

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Portfolio | OnTheBrink.AI • Secret Security Clearance

## SUMMARY OF QUALIFICATIONS

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AI/LLM engineer and systems designer focused on end-to-end agent platforms. Experienced translating user goals into reliable tool-using workflows with persistent memory, clear interfaces, and production-ready architecture. Strong Python foundation with practical deployment experience across cloud, containers, and CI/CD.

## PROJECTS & RESEARCH PROTOTYPES

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### ChefByte | [ChefByte.app](https://ChefByte.app)

- Free, open-source food inventory and macro platform built to make healthy eating easier and reduce friction when changing or expanding a diet.
- Smart barcode + manual entry; auto-filled nutrition/storage/expiration data; inventory-linked macro tracking; macro-density recipe search; shopping lists from gaps + meal plans; Walmart matching with batch price updates; optional smart-scale logging.
- Designed for minimal operational cost —lightweight serverless endpoints plus Supabase RLS for low-cost, multi-tenant use.
- Tech Stack: React + Vite + TypeScript, Node.js/Express, PostgreSQL, Vercel, Supabase

### LiveNPC (Prototype) | [huggingface.co/spaces/jbrinkw/live-npc](https://huggingface.co/spaces/jbrinkw/live-npc)

- Real-time multi-agent simulation framework designed to support natural coordination, adaptive behavior, and human interaction inside a living game world.
- Built a deterministic simulation with event/trigger/reflex architecture and tool-batched control to support repeatable multi-agent experiments.
- Targets long-term NPC realism, including multi-speed cognition and moment-to-moment behavior that can be hard to distinguish from humans.

### OpenEthos (Prototype) | [OpenEthos.ai](https://OpenEthos.ai)

- A public computational ethics and moral decision-making prototype that exposes why people disagree on policy instead of just that they disagree.
- Built a transparent binary moral scoring model with explicit time/scale semantics, social-distance weighting, and auditable factorization for high-stakes tradeoffs.
- Actively improving calibration, model stability, and AI-assisted factor-generation quality.

## WORK EXPERIENCE

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### Founder / Lead Architect | Luna AI Platform | [LunaHub.dev](https://LunaHub.dev)

February 2025 – Present | Charlotte, NC

- Designed and built a modular AI agent platform enabling custom tool creation, automated task scheduling, and persistent memory for context-aware assistance exposing 73 tools across 8 extensions.
- Implemented an OpenAI-compatible Agent API and Model Context Protocol (MCP) server to standardize secure tool access for external AI clients over SSE.
- Integrated Home Assistant API for voice-controlled smart home automation and natural language device management
- Deployed on AWS EC2 using Docker with CI/CD and a PostgreSQL-backed memory layer.

## **Data Systems Administrator | United States Marine Corps**

December 2021 – September 2022 (Active Training) | Reserve Status through 2027

- Deployed and configured small-scale network infrastructure at forward training sites, including server blade installation with ESXi virtualization, VM configuration with failover capabilities, network cabling, and switch configuration
- Implemented enterprise communication services including VoIP (Cisco CUCM), Microsoft Exchange email servers, and Windows Server DNS to support training operations and field exercises

## **CERTIFICATIONS**

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- AWS Cloud Practitioner
- AWS Certified AI Practitioner
- AWS Certified Machine Learning Engineer – Associate
- CompTIA Data+
- LPI Linux Essentials

## **SKILLS**

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- **AI/LLM Systems:** Agent APIs, tool orchestration, MCP, RAG, prompt/tool design, LiteLLM, LangChain, LangGraph
- **Software & Backend Development:** Python, REST API Development, Docker & Containerization
- **Data:** SQL, PostgreSQL, Pandas, Pydantic
- **Cloud/DevOps:** AWS, CI/CD (GitHub Actions), Vercel, Supabase

## **EDUCATION**

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### **Master of Science in Computer Science**

Western Governors University • Salt Lake City, UT • Expected Graduation May 2026

### **Bachelor of Science in Computer Science**

Western Governors University • Salt Lake City, UT • Graduated Feb 2025