

# Jeremy Brinkworth

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Portfolio | [OnTheBrink.AI](https://OnTheBrink.AI)

## SUMMARY OF QUALIFICATIONS

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AI-focused Computer Scientist with a strong foundation in machine learning, NLP, and large language models. Skilled in Python, PyTorch, Scikit-learn, and cloud platforms like AWS and Azure. Experienced in building data pipelines, fine-tuning LLMs, and deploying AI solutions. Passionate about leveraging AI to develop innovative, data-driven applications.

## CERTIFICATIONS

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AWS Cloud Practitioner

AWS Certified AI Practitioner

AWS Certified Machine Learning Engineer – Associate

Azure AI Fundamentals

CompTIA Data+

LPI Linux Essentials

**PROJECTS:** Additional Projects in Portfolio linked above

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### Langchain Powered Personal Assistant

- LLM-driven AI assistant built with Python, LangChain, FastAPI, and Docker
- Tracks food inventory & taste preferences, suggesting meals based on available ingredients and taste preferences
- Generates multi-day meal plans and automates Walmart delivery orders
- Backend hosted on AWS EC2 (Docker), SQL database on Azure
- Frontend deployed on Hugging Face Spaces (Streamlit UI)
- Uses open-source LLMs (DeepSeek R1, Llama 3) for async processing on personal hardware to cut API costs

## SKILLS

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- AI & Machine Learning: AI API Development, Natural Language Processing (NLP), Pytorch, Prompt Engineering
- Software & Backend Development: Python, REST API Development, Docker & Containerization
- Database & Data Engineering: Data Processing with Pydantic, Pandas, PostgreSQL
- DevOps & Cloud: Amazon Web Services (AWS), Azure Cloud Services, CI/CD (GitHub Actions)
- AI Workflow & Automation: AI-Powered Task Automation, Web Automation for AI Agents

## EDUCATION

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### Bachelor of Science in Computer Science

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

## WORK EXPERIENCE

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### United States Marine Corps

#### Data Systems Administrator

- In training full time from December 2021 to September 2022.
- Reserves until 2027.