

# Alex Metzger

Dedicated Software Developer with a focus on AI Research and web application development.

📞 575-805-9738 | ✉️ [ametzger08@gmail.com](mailto:ametzger08@gmail.com) | 🌐 <https://www.alex-metzger.com> |

🐙 <https://www.github.com/Metameg> |  <https://www.linkedin.com/in/alex-metzger-699802233>

## Experience

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### AI Research Assistant

May 2025 - present

University of North Texas

- Built end-to-end **AI/ML and LLM pipelines** in Python using **OOP** and scalable software engineering practices.
- Conducted large-scale LLM evaluation, prompt engineering, and automated model testing workflows.
- Developed scalable data preprocessing, embedding, and **NLP pipelines for AI applications**.
- Collaborated with cross-functional teams on AI experimentation, statistical analysis, and research publications.
- Managed ML artifacts, experimental workflows, and version control using **Git** and reproducible research practices.
- Worked with **PyTorch, Pandas, REST APIs**, and modern **Generative AI** development workflows

### Freelancer

March 2023 - present

The Domain Designers

- Engineered full-stack web applications for small business clients, integrating **React.js** frontends with **Flask** and **Node.js** backends
- Designed and optimized **RESTful APIs** to support dynamic user interactions and real-time data updates
- Improved performance and SEO by applying **Lighthouse audits**, reducing average load time to **under 1.2 seconds** and increasing accessibility scores above **95**
- Designed scalable database schemas and **optimized SQL queries** for high-traffic endpoints.
- **Collaborated directly with clients** to translate business requirements into technical deliverables, providing tailored solutions and maintaining ongoing support.

### Unloader / Freezer Orderfiller

February 2019 - present

Walmart

- Assisted management with company's **Agentic AI** code assistant **CodePuppy**.
- **Trained new employees** to use inventory management system on TC72 Android systems.
- Worked collaboratively with team members to accomplish daily goals.

## Education

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### PhD candidate - Artificial Intelligence

*in progress*

University of North Texas (GPA - 4.0)

### BS Computer Science

*graduated May 2022*

Southern New Hampshire University (GPA - 3.73) (Magna Cum Laude)

## Projects

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### JukeboxRadio AI

<https://jukeboxradioai.com>

### The Domain Designers

<https://thedomaindesigners.com>

### OmniClip

<https://github.com/Metameg/OmniClip>

## Publishings

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[\*“Dependence Minimization for Multi-Label Classification: An Alternative to Human Labeling”\*](#) at the *Cognitive Machine Intelligence (CogMI) 2025 Conference (Pittsburgh, PN)*. DOI: 10.1109/CogMI67134.2025.00027.

[\*“Prompts and Thoughts: Can Your Cyber Curriculum Meet the Job Skills”\*](#) at the *Cognitive Machine Intelligence (CogMI) 2025 Conference (Pittsburgh, PN)*. DOI: 10.1109/CogMI67134.2025.00039.

*“Task-Aligned Contrastive Learning for Filtering Noise in Multi-Label Text Classification”* at the *IntelliSys Conference 2026 (Amsterdam, Netherlands)*. Pending DOI.

## Awards

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Student Employee of the Year 2026 - The Marvelous Multitasker Award - University of North Texas

## Tech Stack

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›Python ›Flask ›PyTorch ›Pandas ›Hadoop  
›SQL ›Git ›React ›CSS ›HTML ›Node.js ›Node.js  
›Flask