

THOMAS O. KANZ

tkanz@andrew.cmu.edu • contact@thomaskanz.com • [ThomasKanz.com](https://www.linkedin.com/in/thomas-kanz) • <https://www.linkedin.com/in/thomas-kanz>

EDUCATION

Carnegie Mellon University

Bachelor of Science in Artificial Intelligence

Pittsburgh, PA

Expected May 2027

Selected Coursework: Introduction to Computer Systems, Matrices and Linear Transformations, Introduction to Deep Learning

SKILLS & ABILITIES

Programming Languages: Python, C, Java, JavaScript, HTML/CSS; Excel, Word, PowerPoint; **Self-Taught Frameworks:** FAISS API, OpenAI API, Streamlit API, Pinecone API, Next JS, React JS, MongoDB, Azure, AWS, Fast API, Milvus DB, Linux

EXPERIENCE

Accenture –Data and AI Summer Analyst, Full-Stack LLM Developer Analyst

June 2025 – August 2025

- Leveraged knowledge graphs, AI Refinery, AzureOpenAI, and test optimization frameworks to create an end-to-end functional proof of concept for agentic selection of optimal product tests for various industry applications.
- Partnered closely with business stakeholders to ensure the POC aligned with business demand, emphasizing practical application and value generation.

GroundForce Capital – AI Engineer and Consultant

January 2025 – Present

- Leading firm through continuous adaptation of AI tool operations improvement via full stack AI engineering work and use case development.

GroundForce Capital – AI Research Analyst and Strategist

August 2024 – December 2024

- Conducted in-depth research on AI technologies and developed strategic recommendations for integrating AI tools and software into GroundForce Capital's operations, focusing on enhancing efficiency and reducing costs.

Assurifai – Founding AI/ML Engineer Intern

May 2024 – July 2024

- Fine-tuned a custom machine learning model for extracting data from merged credit reports. Developed and deployed a RESTful API to manage concurrent requests to the ML service, successfully integrating it into the Assurifai backend.

PROJECTS

cmuGPT.com – CMU Specific AI Agent

- Built cmuGPT AI assistant that leverages custom tool calling, RAG indexing architecture, and metadata filtering to provide accurate content from CMU specific web sources.

[Osprey](#)– CMU Project Forum – [Open Source](#)

8/2025

- Developed comprehensive web forum to enable ScottyLabs and Sigma Eta Pi members to post updates about project work throughout the semester.

Cal Hacks AI Edition – [Graphly](#) - Knowledge Graph Enabled Digital Twin of Berkeley, CA

6/2025

[Atvida](#) – AI and Web Powered Misinformation Detection Browser Extension

- Designed, implemented, and deployed full-stack browser extension that fact checks social media posts in real-time.
- Expanded service to Atvida WhatsApp allowing users to send social media posts from mobile devices for analysis.

Nova Gen AI Hackathon 2024 – [Velroi Intel](#) – 2nd place out of 42 teams

11/9/2024

- Built “Reverse Phishing” AI Agents that can investigate whether a commercial phone number is linked to a legitimate business or fraudulent operation, using the Twilio and Realtime OpenAI APIs.
- Utilized advanced LLM function calling capabilities to generate robust Scam Analysis PDF Reports based on call transcripts.

HackHarvard 2024 – [Open Context](#) - Won ‘Best AI Application Built with Cloudflare’

10/11/2024 – 10/13/2024

- Programmed a notes platform that creates a searchable semantic database for all data from across multimodal note formats.

[Velroi Catalogs](#) – AI & Semantic Search Course Catalog Project

July 2024

- Programmed a modern course catalog with semantic search capabilities and a Generative AI LLM driven AI assistant that can automatically adjust search parameters using function calling.

[MeritAtlas](#) by Velroi – Scouts BSA Merit Badge Search Engine Service Project

May 2024

- Built and distributed semantic search Merit Badge search engine from start to finish as a volunteer service project.

2024 TartanHacks – Graduate Student Assembly Campus Experience Award Winner

Pittsburgh, PA

- Built [CarnegieGPT](#) an intelligent search tool for answering questions related to disparate course and dining databases.

2024 AI EarthHack Hackathon Participant – The GenAI Competition

Virtual

- Built a functional front-end and back-end generative AI filtering system to evaluate circular economy business ideas.

OTHER EXPERIENCE

Project Olympus Startup Incubator– Customer Discovery Kickstart Program Participant

Pittsburgh, PA

- Completed 20 customer discovery interviews to understand existing market problems related to course catalog software.
- Speaker at Project Olympus’ Annual Show and Tell 2024 Event, where I presented my startup Velroi’s problem/solution pitch.

ScottyLabs – Carnegie Mellon University

Director of Labrador Committee

Pittsburgh, PA

September 2023 - Present

- Leading new initiatives for product management, entrepreneurship, and retention in the largest committee by headcount.
- Overseeing recruitment of up to 100+ new members into the Labrador committee.

Sigma Eta Pi Professional Co-ed Entrepreneurship Fraternity – Carnegie Mellon University

Pittsburgh, PA

Head of Website Development and Founders Education Committee Member

January 2024 - Present

- Designed, built, deployed, and maintain our website cmusep.com, adhering to branding guidelines.

SELECTED AWARDS

***Perfect Score** on the 2022 AP CS Principles Exam, Earned Every Single Point Possible (Top 0.15% of Test Takers)

Valedictorian Award - Warwick Valley High School & Highest Four-Year High School Math, Science, and History Averages

Eagle Scout; AP Scholar with Distinction & NYS Seal of Biliteracy (Spanish)

National Hispanic Recognition Program Scholar & National Rural and Small Town Recognition Program Scholar

National Merit Scholarship Program Commended Student

Innovation Scholar