

# Tae Kim

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## EDUCATION

### Vanderbilt University

B.S. in Computer Science, B.S. in Economics  
Dean's List

Nashville, TN

Aug. 2022 – May 2026

**Relevant Coursework:** Algorithms, Principles of Software Engineering, Principles of Operating Systems, Database Management Systems, Intermediate System Design, Applied Econometrics, Microeconomics, Macroeconomics, International Economics, International Trade, Wages, Employment, and Labor Markets.

## PROFESSIONAL EXPERIENCE / LEADERSHIP

### LiveArena Technologies

Program Manager / Developer Intern

Bellevue, WA

Jul. 2025 – Sep. 2025

- Drove end-to-end design and delivery of a Gen Z AI engagement initiative, conducting foundational research, aligning stakeholders, and developing a university-based pilot aimed to scale to 100,000+ students globally within five years.
- Executed 4 key program components, including an AI research brief and competitor analysis, while analyzing and constructing frameworks for adaptive learning, personalization, and large-scale student engagement.
- Collaborated with 3 internal teams to prototype an AI mentorship platform that uses LLMs, learner modeling, and prompt evaluation pipelines to build adaptive systems that learn from student behavior.
- Delivered structured presentations outlining 5 sprints of development and planning to the CEO and leadership team, influencing internal decisions on resource prioritization and long-term AI education strategy.

### VandyHacks Marketing Team

Marketing Committee Board Member

Nashville, TN

Mar. 2023 – Jan. 2024

- Led multi-channel promotions on Instagram, TikTok, and YouTube, elevating hacker culture engagement with 50+ posts and videos that expanded student reach and supported record attendance.
- Explored applications of AI-driven tools including generative content, predictive analytics, and personalized recommendations to engage the greater Nashville community, enhance content retention, and strengthen long-term participation.

### Data Visualization and Interactive Dashboards with Python

Textbook Editor

Nashville, TN

Mar. 2023 – Mar. 2024

- Edited and reorganized a 180+ page university-sponsored textbook guiding readers from Python installation to full-stack dashboard deployment, covering core libraries (NumPy, pandas, Matplotlib) and tools like Git/GitHub, AWS, and Render.
- Elevated user experience by integrating real-world scenarios and refining technical walkthroughs; deployed sample dashboards on AWS and Render and enhanced supporting code to deepen understanding of data analysis and deployment.

## PROJECTS

### Personal Portfolio Chatbot

| GPT-4.1 Nano, Chroma, FastAPI

Jul. 2025 – Sep. 2025

- Developed an interactive AI-powered chatbot that functions as a dynamic personal portfolio, answering visitor questions about professional experience, skills, and projects with 80-85% accuracy across 25+ resume-related topics.
- Designed a custom retrieval-augmented generation (RAG) pipeline combining GPT-4.1 with a semantic search engine using text-embedding-3-small and ChromaDB to index and retrieve over 100 structured data chunks.
- Improved response clarity and reduced token usage by 20-25% by leveraging advanced prompt engineering techniques, including context compression, few-shot examples, and token optimization.
- Built a scalable backend using FastAPI with 6+ modular REST endpoints, integrated vector search, and implemented robust error handling, enabling low-latency performance under 50+ concurrent API requests.

### Tic Tac Toe

| Node.js, Express, Socket.IO, MongoDB, HTML, CSS

Jun. 2025 – Sep. 2025

- Developed full-stack multiplayer Tic Tac Toe game supporting 10-15 concurrent players with real-time performance using Socket.IO and MongoDB for state persistence.
- Implemented secure session-based authentication using express-session, HTTP-only cookies, and bcrypt for password hashing; currently managing 100+ seeded test accounts with registration and login functionality.
- Designed and optimized MongoDB schemas to support 1,000+ game records, enabling leaderboard generation and player statistics via aggregation pipelines.

## TECHNICAL / SOFT SKILLS

**Languages:** JavaScript, Python, C/C++, Java, HTML, CSS

**Frameworks & Tools:** FastAPI, Express, OpenAI API, Socket.IO, Git, GitHub, MongoDB

**Core Strengths:** Technical Communication, Cross-functional Collaboration, Problem Solving, Agile Workflow, User-Centered Thinking, Detail-Oriented