

Tae Kim

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EDUCATION

Vanderbilt University

Bachelor of Computer Science and 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 new initiative supporting Gen Z engagement with AI, conducting foundational research, aligning stakeholders, and developing rollout plans for a university-based pilot program.
- Executed 4 major program components, including a research brief on Gen Z's approach to AI, a comparative analysis of mentorship models, and peer-led onboarding and engagement frameworks.
- Collaborated across 3 internal teams and multiple colleagues to develop success metrics, learning resources, and curriculum templates focused on AI-augmented leadership and system-aware thinking.
- Delivered numerous research-backed proposals to the CEO and leadership team, presenting insights and product strategy that influenced internal discussions on resource planning 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, enhancing hacker culture engagement with 50+ posts and videos, diversifying student reach.
- Launched comprehensive marketing strategies, such as newsletters, workshops, and mentorships, that significantly increased attendance and mentorship program enrollments, reinforcing VandyHacks' position as a pivotal tech event.

Data Visualization and Interactive Dashboards with Python

Textbook Editor

Nashville, TN

Mar. 2023 – Jan. 2024

- Incorporated real-world application scenarios, with a focus on facilitating consumer usage of platforms such as AWS, thus improving practical understanding.
- Reorganized and refined instructional material for a 180+ page textbook, providing a cohesive progression of NumPy and Python-based data analysis tools and content.

PROJECTS

Personal Portfolio Chatbot | OpenAI GPT 3.5, Chroma, FastAPI, React

Jul. 2025 – Sep. 2025

- Developed an interactive AI-powered chatbot that functions as a dynamic personal portfolio, answering visitor questions about my experience, skills, and projects with 80-85% accuracy across 25+ resume-related topics.
- Designed a custom retrieval-augmented generation (RAG) pipeline combining GPT-3.5 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 SKILLS

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

Frameworks: FastAPI, OpenAI API, Socket.IO, Express

Databases: MongoDB, REST APIs, WebSockets