

# Shane Mion

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## EDUCATION

**Stanford University** - *B.S. in Computer Science | Minor in Data Science | GPA: 3.75/4.0* | **2022 - June 2026**

- **Courses:** AI Principles, Programming Abstractions, Design & Analysis of Algorithms, Operating Systems, Computational Probability, Systems, Data Science Principles, Scientific Python, Linear Algebra, Multivar Calc

## EXPERIENCE

**Product Management Intern** - [ADVANCE AI](#), Singapore | **June 2024 - August 2024**

- Led product vision and strategy for an internal MLOps pipeline aiming to enhance document OCR and IQA across diverse global document identification methods to scale our services for our enterprise client, TikTok Shop.
- Conducted internal cross-team interviews with R&D engineers, Annotation leads, and UX teams to redesign the needs of our annotation platform, developing a Products Requirement Document and priority user stories in JIRA.
- Performed market research and B2B user interviews to gather insights and inform the development of a customer relations/support system, integrating LLMs with existing knowledge bases to enhance customer query handling.

**Software Developer** - **Stanford Graduate School of Education** | **Jan 2024 - April 2024**

- Headed the full-stack development of an AI-powered syllabus creation and feedback tool using React.js, Flask, and the OpenAI API. Drove feature ideation and UX design, creating interactive content tailored to instructors.
- Engineered a novel content suggestion system combining AI-generated search queries with web scraping to provide current, relevant educational content. Integrated multithreaded Firebase functions for backend processing.

**Machine Learning Student Researcher** - **Stanford Artificial Intelligence Laboratory** | **Jan 2024 - April 2024**

- Researched integrating formal proofs from ITPs (Lean) into LLMs to enhance their mathematical reasoning.
- Improved Llama-7b's autoformalization scores on the MATH benchmark in probability and counting by 4.6%.

**Social & Marketing Chair** - **TreeHacks, Stanford's Annual Hackathon** | **Nov 2022 - April 2024**

- Implemented a data-driven marketing strategy across social platforms leading to a 52% increase in applications, attracting a record-breaking 10,000+ applicants from 320+ universities with a 70% completion rate.
- Utilized market research, content creation skills, and video editing to rebrand and enhance digital presence, resulting in a 35% growth in social following and a 1,308% increase in accounts reached within a month.
- Directed and starred in the [Opening Ceremony Video](#), aiming to inspire attending hackers from 320+ universities.

## EXTRACURRICULAR

**Resident Assistant (RA)** - *Freshman Dormitory* | **July 2024 - Present**

- Provide mentorship, support, and community leadership for 85 students. Designed dorm [merch](#) and hold on-calls.

## PROJECTS

[Loci: Memory Palace](#) | **Swift, SwiftUI, Apple Vision Pro, Reality Kit, Blender, Bezi**

- Developed an XR app using the memory palace technique, driving product design and feature ideation to allow users to attach and interact with memorization objects in 3D spaces to boost cognitive abilities and memory recall.

[MimicSpeech](#) | **React.js, Flask, OpenAI API, Azure, Azure TTS, GCP, Docker, Stripe**

- Launched a multilingual-learning web platform for natural language responses and synchronized speech to improve foreign accent and speaking ability, complete with content-customized user dashboards and profiles.

[Identification of Human Values behind Arguments](#), *Stanford Machine Learning Lab* | **Pandas, BERT**

- Trained and published a natural language processing (NLP) model by **fine-tuning BERT and GloVe** embeddings to categorize textual arguments into human value categories with F1 scores of 0.76 (train) and 0.45 (val).

**Languages:** Python, C++, C, JavaScript, TypeScript, Swift, R, SQL | React.js, React Native, Node.js, Next.js, (Mandarin)

**Tools & Technologies:** GCP, Cloud Run, Azure, AWS, Docker, OpenAI API, Tableau, Figma, NoSQL, Sheets, Git