

Tam Tran

Westminster, CA | itistamtran@gmail.com | tamtran.vercel.app
linkedin.com/in/tamtran- | github.com/itistamtran

Summary

Computer Science student at Cal Poly Pomona with minors in Mathematics and Data Science, seeking an AI/ML or software engineering internship. Having experience in Python, PyTorch and building intelligent systems with social impact.

Education

Cal Poly Pomona

Expected December 2025

- Bachelor of Science in Computer Science
- Minors in Data Science and Mathematics

Cypress College

December 2023

- AS-T Degree in Computer Science

Technical Skills

Programming: Python, JavaScript, TypeScript, Java, C++, SQL, HTML, CSS
Frameworks: Next.js, React
AI/ML Tools: PyTorch, scikit-learn, Jupyter Notebook, timm, Pandas
Developer Tools: GitHub, VS Code, Firebase, REST API, Railway, MySQL, PostgreSQL
Creative Tools: Photoshop, Illustrator, Premiere, Fresco, Canva

Projects

Brain Tumor Detection with Vision Transformer (Multiclass)

medscanai.vercel.app

Technologies: Python, PyTorch, timm, Vision Transformer (ViT), CNN, Jupyter Notebook, Flask, REST API, Railway

Developed and deployed a full-stack deep learning system to classify brain MRI images for multiclass diagnosis (Glioma, Meningioma, Pituitary, No Tumor, Unknown). Key contributions:

- Built and fine-tuned Vision Transformer (ViT) models using PyTorch and the timm library for medical image classification.
- Applied advanced data preprocessing, augmentation, and evaluation techniques to optimize model robustness and accuracy.
- Achieved 98.5% multiclass classification accuracy.
- Deployed model through Flask REST API with live web interface on Railway, enabling real-time predictions.

Library System Developer (Group Project)

library-system-omega.vercel.app

Technologies: NextJS, Material UI, Tailwind CSS, PostgreSQL, Prisma, Neon

Collaborated on developing an online library system to enhance service operations for students and library staff.

Responsibilities included:

- Collaboratively designed and implemented user interfaces using NextJS, Material UI, and Tailwind CSS.
- Contributed to backend development with PostgreSQL and Prisma for efficient data handling.
- Assisted in optimizing system scalability and performance with Neon.

Work Experience

Web Editor, Philosophy Department, Cal Poly Pomona – Pomona, CA

Jan 2025 – Present

- Manage and update website content, styles, and layouts using Cascade CMS for multiple departmental sites, including the Digital Humanities Consortium, Ethics and Policy Center, and the Philosophy and Science Technology Society.
- Utilize CSS to enhance design elements beyond Cascade CMS's built-in capabilities, ensuring responsive and visually cohesive layouts.
- Collaborate with faculty and staff to maintain an accurate and engaging online presence for academic and research initiatives.

Student Assistant, Technology and Operations Management Department – Cal Poly Pomona, CA

Jul 2024 – Dec 2024

- **Website Maintenance:** Managed and updated website content, styles, and layouts using Cascade CMS; monitored site performance; resolved bugs; and ensured optimal user experience.
- **Departmental Support:** Assisted with day-to-day operations, including clerical tasks such as filing and data entry.
- **Faculty and Student Support:** Provided assistance to faculty, staff, and students with department-related inquiries.
- **Social Media and Marketing:** Developed content and marketing materials for the department's social media platforms.

Related Coursework

- **Computer Science & AI:** Machine Learning, Data Mining, Big Data, Data Structures in C++, Design and Analysis of Algorithms, Object-Oriented Design, Systems Programming, Computer Architecture
- **Math & Data Science:** Linear Algebra, Probability and Statistics, Discrete Structures, Math of Operations Research I & II
- **Other:** Multivariable Calculus, General Physics I & II