

Anthony Tang

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EDUCATION

Rice University

BS in Computer Science, BA in Statistics, Minor in Data Science
GPA: 3.85/4.0

May 2027
Houston, TX

Relevant Coursework: Algorithmic Thinking (Data Structures & Algorithms), Intro to Program Design, Intro to Computer Systems, Concurrent Program Design, Reasoning About Algorithms, Linear Regression

EXPERIENCE

Software Engineer Intern

WhyAI

Oct 2025 – Jan 2026

Houston, TX

- Spearheaded a large-scale refactor of the **full-stack** backend, migrating over **70%** of the codebase to a **layered microservices architecture** utilizing **SOLID principles** to eliminate technical debt.
- Engineered a **cloud-native CI/CD pipeline** by developing **automated testing frameworks** with **Pytest** and **Playwright**, achieving **80% code coverage** and ensuring **99.9% deployment reliability**.

Software Engineer Intern

Curriculum Associates

May 2025 – Aug 2025

Boston, MA

- Optimized **data visualization workflows** for a team of **500+** by building a high-performance query feature to process **100,000+** data points, boosting **developer productivity** by **50%**.
- Lead the **frontend migration** of mission-critical asset management features to a modern **React.js framework**, improving UI responsiveness and system **maintainability** for the internal developer platform.
- **Won 1st place** in a company-wide hackathon by architecting an **AI-driven** transcript generator using **Natural Language Processing (NLP)**, increasing content creation **velocity** by **50%**.

Software Engineer Intern

Curriculum Associates

May 2024 – Aug 2024

Boston, MA

- **Collaborated** in an **Agile environment** to enhance an enterprise content management system, delivering **API optimizations** and resolving critical bugs for **500+** daily active users.
- **Automated SDLC workflows** by developing custom automation scripts for Jira, eliminating **5+ hours** of manual overhead per **sprint cycle**.
- Awarded **1st place** in a hackathon for integrating **third-party SDKs** that improved **cross-functional team efficiency** by **10%**.

PROJECTS

Adapt Language Learner | *TypeScript, React, Node.js, Supabase, PostgreSQL*

- **Architected** a **real-time, full-stack translation engine** for wearable tech using the AugmentOS SDK, optimizing **WebSocket streams** for **sub-second latency** in live captioning.
- Implemented a **server-side data pipeline** leveraging **Supabase** and **regular expressions** to provide **automated feature extraction** for linguistic idioms and conversation metrics.

RESEARCH & PUBLICATIONS

Why It Failed: A Benchmark to Evaluate Interpretability

LM4UC Workshop, AAAI Conference on Artificial Intelligence (AAAI-26)

- Developed a **benchmark framework** evaluating if interpretability methods can explain **Large Language Model (LLM)** failures across physical, social, and linguistic reasoning tasks
- Trained **logistic regression probes** on the residual stream of **Gemma-2 2B** across 25 layers to test if model errors are linearly encoded in internal activations
- Demonstrated that standard probes achieve **near-chance performance (AUC \approx 0.5)**, revealing a critical gap in using current linear interpretability methods for **AI safety** and failure prediction

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, Go, R, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Next.js, PyTorch, Scikit-learn

Databases: PostgreSQL, MySQL, MongoDB, Supabase

Developer Tools: Git, GitHub, Docker, REST APIs, GraphQL