Michael Yu

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EDUCATION

Stanford University — Expected Graduation: June. 2027
BS, Computer Science — *Stanford, CA*
Clubs: ASES Bootcamp Director, Cardinal Ventures Associate, Stanford Speakers Bureau Tech Director

EXPERIENCES

Context — **Jun. 2025**
Member of Technical Staff — *Palo Alto, CA*
- Built out frontend UI and wired to backend systems Next.js for product launch
- Patched Vercel AI SDK to support prompt caching reducing costs by 90%

Redwood SMB — **Jan. 2025 – Mar. 2025**
Full Stack Engineering Intern — *Stanford, CA*
- Creating Go backend and Typescript frontend for startup backed by GC, Lux, KXVC, AV1
- Building marketplace for small businesses and automated business valuation with QuickBooks

TikTok — **Jul. 2024 – Sep. 2024**
Security Software Engineering Intern — *San Jose, CA*
- Built a React site demoing TikTok passkey service to Mastercard, American Express, Starbucks, etc.
- Integrated new Go passkey SDK in backend service for B2B customers
- Achieved a 13x decrease in latency through new SDK integration
- Collaborated with Google on modifying FIDO2 Webauthn passkey specification

MathOS AI — **Jun. 2024 – Aug. 2024**
LLM Research Intern — *San Francisco, CA*
- Investigated an agent-based framework to improve the efficacy of LLMs such as GPT4o for solving advanced math problems such as calculus and statistics
- Created Python semantic search system using Haystack, Pinecone, and OpenAI for math question retrieval
- Built Retrieval Augmented Generation system achieving 90% peak accuracy for math questions

University of Rochester Laboratory for Laser Energetics — **Jul. 2023 – Sept. 2023**
Machine Learning Research Intern — *Rochester, NY*
- Researched faster prediction of OMEGA EP Laser System pulse shape using convolutional neural networks
- Developed a 100x faster predictive MATLAB model compared to a physics-based model with around 2% error

PROJECTS

Intelligent Deal Flow Search Engine for Venture Capital firm
- Architected and engineered a high-speed search and retrieval system from the ground up
- Developed custom Swift app to auto upload notes from MacOS to database
- Built custom preprocessing and retrieval pipeline allowing for querying specific keywords over long timeframes

cardFlash
- Developed iOS and Android study app using Flutter, rated 4.8+ stars with 24,000+ sessions around the world
- Partnered with 6 institutions, such as Barker Road Middle School, Nazareth University, etc.

SKILLS

- **Languages:** Go, Python, Java, C++, JavaScript/HTML/CSS, Dart, Swift, MATLAB, MySQL
- **Frameworks/Libraries:** Flutter, Next.js, SwiftUI, Expo, Google App Script, Haystack
- **Tools:** Git, JetBrains IDEs, Xcode, Vim, RDS, KMS, Redis, Claude Code, Supabase