

Swindar(Keyang) Zhou

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EDUCATION

Stanford University, CA, USA

Admitted

Master of Science in Bioengineering (College of Engineering & Medicine)

University of Notre Dame, IN, USA

May 2026

Bachelor of Science in Computer Science (College of Engineering) | Minor: UI/UX Design

GPA: 3.82 / 4.0

Honors: Cum Laude, Glynn Family Honors (Top 5%), Grand Challenge Scholar (National Academy of Engineering)

WORK & LEADERSHIP EXPERIENCE

ROSY (AI-powered Wellness App)

Feb 2026 – Present

Engineering Lead

- Building a perinatal wellness iOS app for mothers with postpartum depression: AI chatbot paired with human coaching; shipped tiered monetization (free / Apple IAP subscription / Stripe)
- Designed full product architecture with a team of 7: Flutter frontend, Firebase backend, and LLM API integration; defined feature roadmap that launched in AppStore with AI chatbot and human support that aims to create a B2B platform for mothers to schedule therapists for postpartum depression; accumulated 50+ early users

MatchLab (AI-powered Research Matchmaker)

Apr 2026 – Present

Founder, Team Lead; Hesburgh Libraries Hackathon, Honorable Mention

- Built an AI research mentor discovery tool in under 48 hours: semantic matching via OpenAI embeddings and cosine similarity, interactive D3.js force-directed faculty graph color-coded by match strength, GPT-4o-mini pipeline generating plain-language professor summaries and personalized cold outreach emails in one click
- Received pilot interest from 5+ ND faculty across 3 departments following demo

Notre Dame Nanoscience and Technology Center

Jun 2024 – May 2025

Undergraduate Researcher, Fu Lab

- Developed A-PACE (Algorithm-Powered Analyzer for Continuous Electrochemistry), a web-based signal processing toolkit for real-time electrochemical biosensor data analysis; reduced manual baseline labeling from 3 hours to <1 second
- Gained hands-on wet lab experience: fabricated electrochemical aptamer biosensors (EABs), performed surface functionalization on 3D nanoporous gold electrodes and managed mammalian cell cultures
- Co-authored a preprint paper: "[Algorithm-Powered Analyzer for Continuous Electrochemistry: A Toolkit for Real-Time Electrochemical Data Analysis](#)" *bioRxiv* (2025)

iGEM (internationally Genetically Engineered Machines)

Aug 2024 – Dec 2025

Chapter Founder & President

- Secured Gold Medal in iGEM Global Competition as Notre Dame's first competing team among 420+ teams
- Founded Notre Dame's first undergraduate biotech innovation incubator, scaling to 200+ active members
- Led cross-functional team of 20 students (engineers, scientists, designers, business) through biotech product development lifecycle for novel weight loss GLP-1 probiotic yogurt from ideation to experimentations
- Secured \$20K in funding across ND Research, Dean Offices of Science Engineering, and 4 Departments
- Placed Top 15% (21/137 teams) in Notre Dame's 25th McCloskey New Venture Competition

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Python, SQL, PostgreSQL, JavaScript, TypeScript, Pinecone, Azure, AWS, Docker; LangChain, LLM/ML, RAG, Prompt Engineering, Redis, CI/CD, NVIDIA LLM Agent Course

Languages: Mandarin (Native), English (Native)

Interests: Competitive Boxing, Marathon Running