

Keyang (Swindar) Zhou

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EDUCATION

University of Notre Dame, Notre Dame, Indiana **May 2026**
Bachelor of Science | Major: Computer Science, Minors: Design & Entrepreneurship GPA: 3.85/4.0
Honors: Dean's List, Grand Challenges Scholar, Glynn Family Honors Scholar, Greater China Scholarship Recipient

EXPERIENCE

iGEM Notre Dame Chapter Notre Dame, IN
Founder *Aug 2024 – Present*

- Spearheaded Notre Dame's inaugural iGEM (International Genetically Engineered Machines) competition team
- Attracted over 100 ND students from 15+ majors and engaged 10+ faculty members to join the advisory board
- Aimed to build a biotech ecosystem at ND by incubating 5+ student-led, hands-on projects

Notre Dame Venture Capital Notre Dame, IN
General Partner *Aug 2024 – Present*

- Led an incubation project aimed at streamlining student workflows in Google Workspace through linking shared files and folders with specific tasks to help students optimize file management

Notre Dame Nanoscience & Technology Center Notre Dame, IN
Researcher & Software Developer *Jun 2024 – Aug 2024*

- Developed electrochemical aptamer-based biosensors to monitor drug efficacy in 3D breast cancer cell cultures that simulate the human body environment with 7000+ uniform spheroids for cell growth
- Accelerated drug testing and delivery at the cellular level, contributing to the advancement of precision medicine

Hesburgh Hackathon Notre Dame, IN
Front-end Developer *Apr 2024 – Apr 2024*

- Designed the front-end and UI/UX for a ChatGPT-inspired chatting platform facilitating interfaith dialogue among college students, featuring a matching algorithm that aims to minimize conflicts and promote diverse perspectives

Data Club 84.51° Project Notre Dame, IN
Data Analyst *Jan 2024 – Apr 2024*

- Analyzed grocery data from 4+ pipelines to identify 5+ underperforming categories with 10+ matrix in R
- Leveraged algorithm-driven insights to enhance cross-listing strategies to boost sales

Boeing Engineering Project Notre Dame, IN
Data Analyst *Sep 2023 – Dec 2023*

- Trained an AI-powered platform for automating aircraft maintenance data updates from the Boeing company
- Achieved 99% accuracy on the testing dataset with the trained natural language processing model

Notre Dame Global Notre Dame, IN
Global Engagement Program Assistant, International Ambassador *Jun 2023 – Aug 2023*

- Provided physical and mental support to 150+ international students from 13+ countries
- Optimized the faculty database with Excel for international collaborations in academia

RESEARCH

AI Medical Imaging Project with Dr. Danny Chen *Aug 2024 – Present*

- Fine-tuned a Vision Transformer (ViT) model to detect Placenta Accreta Spectrum (PAS) from 1000+ labelled medical images with 99% precision

Facial Recognition Project with Dr. Kevin Bowyer *Jan 2024 – Apr 2024*

- Evaluated transformer-based encoder-decoder architecture against Convolutional Neural Network (CNN) for facial recognition tasks in various datasets

ACTIVITY

Baraka Bouts Boxing Tournament Notre Dame, IN
Competitor *Sep 2023 – Dec 2023*

- Dedicated 8hrs per week over two months to train to compete for the world's largest amateur boxing tournament
- Raised ~\$500 for Holy Cross missions to support the construction of girls' dorm in Uganda's high schools

SKILLS

Technical: Python, C, Matlab, Javascript, HTML, CSS, R, Unix, Photoshop
Language: Chinese (native), English (proficient)