# Keyang(Swindar) Zhou

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## EDUCATION

- **University of Notre Dame** — Notre Dame, IN
  *B.S. in Computer Science; Minor in Entrepreneurship & Design; GPA: 3.85/4.0* — *May 2026*

## SKILLS

Python, C, C++, Matlab, Javascript, HTML, CSS, R

## TECH FOCUSED

- **NDnano Undergraduate Research Fellow(NURF)** — Notre Dame, IN
  *Notre Dame Nanoscience and Technology (NDnano)* — *Jun 2024 - Present*
  * Designed advanced electrochemical biosensors to evaluate drug efficacy in 3D breast cancer cell cultures, simulating the human body environment. This innovation accelerates drug testing and delivery at the cellular level, contributing to the advancement of precision medicine.

- **Social Media App Dev - Agora** — Notre Dame, IN
  *Hesburgh Hackathon* — *Apr 2024 - Apr 2024*
  * Developed the front-end and UI/UX design for the Agora website page, which is an app that aims to provide a comfortable chatting space for sensitive issues such as interfaith on college campuses.

- **Undergraduate Researcher in Chemical Engineering** — Notre Dame, IN
  *Janus Particle Project with Chang Lab @ND* — *Aug 2023 - Present*
  * Researched novel interference-resistant Janus Particles(JP) for enhancing cancer exosomes quantification in human blood. Utilized Matlab algorithm to track the blinking patterns of JP to analyze its rotational Brownian motion in less an hour.

- **Undergraduate Researcher in Computer Vision** — Notre Dame, IN
  *Facial Recognition Project in the Computer Science & Engineering Dept.* — *Feb 2024 - May 2024*
  * Used Colab to run 5+ ML models and introduced transformer models to maximize model accuracy through a high-throughput filter function.

- **Boeing Natural Language Processing Project** — Notre Dame, IN
  *Engineering Innovation Project @ND College of Engineering* — *Sep 2023 - Dec 2023*
  * Created an AI-powered platform for gathering and updating information for aircraft maintenance through Python and JavaScript.

- **Touchdown Venture Analyst** — Notre Dame, IN
  *Notre Dame Venture Capital Club* — *Sep 2023 - Dec 2023*
  * Sourced 100+ startup companies in Electric Vehicle industry and crafted a mature investment report for Charging-as-a-service.

## SOCIAL FOCUSED

- **Summer Intern, International Ambassador** — Notre Dame, IN
  *Notre Dame International* — *Jun 2023 - Aug 2023*
  * Proven track record of providing exceptional physical and mental support to 150+ international students from 13+ countries. Optimized the faculty database with Excel for international academic collaborations.

- **Project Leader, Women Entrepreneurs Matter** — Notre Dame, IN
  *Students Consulting for Nonprofit Organizations @ND* — *Feb 2023 - May 2023*
  * Developed interactive website with Wix for fundraising and getting support toward building up effective women entrepreneur supportive system in South Bend and beyond.

## HONORS

- **Scholar Programs**: iTREDS Scholar, Grand Challenge Scholar, Greater China Scholar
- **Dean's list**: Fall 2022, Fall 2023, Spring 2023