Sophie Chou

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EDUCATION

University of Notre Dame | Notre Dame, Indiana   May 2026
Bachelor of Science in Computer Science - Minor in Engineering Corporate Practice   GPA 3.90

EXPERIENCE

X-Energy | Oak Ridge, Tennessee   May 2025 – Present
Systems Engineering Intern
- Write, review, and maintain system requirements using ALM tool Visure, supporting end-to-end traceability and compliance for the development of the TX-1 facility in support of small modular reactor (SMR) technology

Irish Gardens Flower Shop | Notre Dame, Indiana   January 2025 – Present
Marketing Manager
- Manage social media accounts and promotional events, create and deliver custom and professional floral arrangements while practicing good communication with coworkers and excellent customer service skills

University of Notre Dame | Notre Dame, Indiana   January 2024 – May 2024
Undergraduate Researcher
- Research with Notre Dame CSE professor studying transformer-networks and the unique hardware and memory devices that facilitate the machine learning process in collaboration with one other Notre Dame student

National Science Foundation | Lyon, France   May 2024 – July 2024
International Research Experiences for Students (IRES) Intern
- Developed a simulator in Python to imitate the transformer-encoding process of emerging model 1FeFET-1C in collaboration with two Notre Dame students and a team of Notre Dame and international PhD students

LEADERSHIP AND ACTIVITIES

Study Abroad | Dublin, Ireland   September 2024 – December 2024
- Completed computer science coursework at Dublin City University in Dublin, Ireland for the 2024 fall semester; traveled to six unique countries throughout Europe

Notre Dame Dance Company | Notre Dame, Indiana   September 2023 – Present
- Participate in tri-weekly rehearsals, developing discipline, coordination, and collaborative dynamics within the club

Society of Women Engineers | Notre Dame, Indiana   August 2022 – Present

RELATED COURSEWORK OR PROJECTS

CampusMart   March 2025 – May 2025
- Collaborated with two students to build a full-stack web application that simulates an online marketplace on a college campus using Python, Django, HTML, CSS, JavaScript, and REST API

AuxCord: Mobile App UX Design Project   January 2025 – May 2025
- Collaborated with a team of three to develop a mobile app proposal, creating both low- and high-fidelity prototypes using hand-drawn sketches and Figma; conducted usability testing to enhance user experience

Personal Website   March 2025
- Developed a personal website using HTML, CSS, and JavaScript to create a responsive and interactive interface

Arduino Alarm Clock   February 2023 – May 2023
- Collaborated with a team of three to develop and build a functional alarm clock programmed in Arduino C/C++

Relevant Courses: Data Structures, Systems Programming, Operating Systems, Programming Paradigms, Computer Architecture, Theory of Computing, HCI, Intro to AI, Fundamentals of Computing, Discrete Math, Linear Algebra, Probability and Statistics, Integrated Business and Engineering, Microeconomics, Intro to Embedded Systems
Publications: *Volatile and Non-Volatile CIM Solutions for Transformer Workloads with 1FeFET-1C Memories*

SKILLS

Programming Languages: Python, C, JavaScript, Java, Clojure, HTML, CSS, Unix/Linux, R, MATLAB, Haskell
Other: GitHub, Agile Framework, Figma, Microsoft Suite, SOLIDWORKS