

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

- Manage end-to-end traceability and V&V across 200+ specifications for 30+ interconnected systems, ensuring lifecycle traceability and system compliance in development of TX-1 nuclear fuel facility
- Worked alongside 3+ engineers in 5+ Agile SCRUM discussions to review, refine, and align system lifecycle documentation with evolving product, system, and stakeholder requirements

Irish Gardens Flower Shop | Notre Dame, Indiana January 2025 – Present
Marketing Manager

- Led digital marketing campaigns across Instagram and Facebook to promote hiring efforts, resulting in 90+ job applications within 1 recruitment cycle
- Design and deliver 50+ customized floral arrangements per week, emphasizing product personalization and customer satisfaction
- Co-manage a team of 18 employees, driving teamwork and innovation to deliver high-quality products to clients

National Science Foundation | Lyon, France May 2024 – July 2024

International Research Experiences for Students (IRES) Intern

- Developed Python-based simulator to model transformer workloads using emerging memory tech (1FeFET-1C), supporting early-stage analysis within a global, interdisciplinary team of 10+ PhD students across 2 institutions
- Co-authored research paper *Volatile and Non-Volatile CIM Solutions for Transformer Workloads with 1FeFET-1C Memories*, contributing to global foundational research for future AI hardware products

RELATED COURSEWORK OR PROJECTS

AuxCord: Mobile App UX/UI Design Project January 2025 – May 2025

- Co-led a 4-sprint product development cycle from ideation to final prototype for a music-sharing social media app
- Designed low-fidelity hand-drawn prototypes, evolving into a wireframed and high-fidelity prototype in Figma
- Conducted 5+ user interviews, 2 rounds of usability testing, and 3 design iterations to validate product-market fit

CampusMart: Website Development Project March 2025 – May 2025

- Built a full-stack web app simulating a campus marketplace using Python, Django, HTML/CSS, JavaScript, and REST APIs; delivered 10+ user-facing features including product listings, messaging, and authentication
- Designed user flows and implemented both frontend and backend logic, iterating based on tester and professional feedback to improve usability and feature value

Personal Website March 2024 – Present

- Built and maintained a personal portfolio site highlighting 5 core content areas; prioritized intuitive navigation and responsive design while iterating to enhance UX and performance

Relevant Courses: Human Computer Interaction, Integrated Business and Engineering Fundamentals, Introduction to AI, Probability and Statistics, Data Structures, Operating Systems, Programming Paradigms

LEADERSHIP AND ACTIVITIES

Study Abroad, Dublin City University, Ireland

Undergraduate Researcher, Sustainable Machine Learning Deployment

Notre Dame Dance Company, Member

Society of Women Engineers (SWE), Member

SKILLS

Programming Languages: Python, C, JavaScript, HTML, CSS, Java, Clojure, Haskell,

Tools/Other: Agile, Figma, R, GitHub, Microsoft Suite, Unix/Linux, MATLAB, Django, SOLIDWORKS