

Sophie Chou

(865) 200-1660 | sophie_chou@outlook.com | Oak Ridge, TN | Website - sophiechou1.github.io/ | LinkedIn - [/in/chousophie/](https://in.chousophie/)

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

- Maintain and trace system requirements for 200+ documents using Visure; manage requirements traceability links for 5+ engineering teams in the development of TX-1 nuclear fuel facility, supporting development of SMR tech
- Contributed to 5+ scrum sessions discussing various product lifecycle documentations in collaboration with 1-4 engineers, gained experience in stakeholder communication, Agile methodology, and large-scale systems thinking

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+ personalized floral solutions per week while managing client relationships, co-managing a team of 18 employees, and enhancing customer satisfaction and brand perception

University of Notre Dame | Notre Dame, Indiana January 2024 – May 2025
Undergraduate Researcher

- Researched hardware acceleration for 10+ transformer-based models from published research papers, collaborating on novel computing strategies and applications in LLM model power efficiency with 2 other Notre Dame students

National Science Foundation | Lyon, France May 2024 – July 2024
International Research Experiences for Students (IRES) Intern

- Built a Python-based simulator for modeling transformer encodings using emerging memory tech (1FeFET-1C), working in a global, interdisciplinary research team of over 10 PhD students across 2 institutions
- Co-authored research paper *Volatile and Non-Volatile CIM Solutions for Transformer Workloads with 1FeFET-1C Memories*

RELATED COURSEWORK OR PROJECTS

CampusMart: Website Development Project March 2025 – May 2025

- Collaborated with 2 students to develop and design a full-stack web application that simulates an online marketplace on a college campus using Python, Django, HTML, CSS, JavaScript, and REST API with 10+ dynamic features, including: product listing, messaging, and authentication

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

- Designed a music-sharing app with a team of 3 from ideation to usability testing throughout 4 sprints; created low-fidelity hand-drawn prototypes that evolved into a final wireframed and clickable prototype in Figma
- Conducted 5+ user interviews and 2 rounds of testing to improve usability and product-market fit

Personal Website March 2024 – Present

- Designed, developed, and deployed a responsive personal portfolio site using HTML, CSS, and JavaScript with 5 subsections; emphasized clean design and positive user experience; frequently maintain and update

Relevant Courses: Human Computer Interaction, Integrated Business and Engineering Fundamentals, Introduction to AI, Probability and Statistics, Microeconomics, Data Structures, Systems Programming, Operating Systems, Programming Paradigms, Computer Architecture, Theory of Computing, Linear Algebra, Introduction to Embedded Systems

LEADERSHIP AND ACTIVITIES

Study Abroad, Dublin City University, Ireland

Notre Dame Dance Company, Member

Society of Women Engineers (SWE), Member

SKILLS

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

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