

# Sherry Gong

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## EDUCATION

### University of Illinois at Urbana-Champaign

Aug. 2023 - May 2026 (expected)

Bachelor of Computer Science, Minor in Business | GPA 3.84/4.00

**Relevant Coursework:** Data Structures, Discrete Structures, Software Design Lab, Linear Algebra with Computational Applications, Probability and Statistics for Computer Science, Numerical Methods I

## SKILLS

**Coding Languages:** Java, C++, Python, SQL

**Frameworks and Tools:** Flask, Git, Pytorch, Pandas, Selenium, LaTeX, SentenceTransformer, Docker, NumPy

**Artificial Intelligence:** LLM Fine-tuning, Retrieval-Augmented Generation, HuggingFace Transformers

**Web Development:** React, JavaScript, CSS, HTML5

## RESEARCH EXPERIENCE

### Undergraduate Researcher, University of Illinois at Urbana-Champaign

Sept. 2024 - Present

Dr. Koustuv Saha, Assistant Professor of Computer Science, Interactive Computing

- Building AI chatbot tailored to support online mental health with SentenceTransformer, Pytorch, and HuggingFace
- Implementing and optimizing RAG-based Mistral model using training dataset of 100k+ online posts
- Conducting efficacy evaluation through human subject surveys

### Intern Researcher, University of Illinois at Chicago

May 2021 - Dec. 2021

Dr. Ying Liu, Associate Professor of Chemical Engineering, Nanoparticles

- Assisted in experiments related to the medical applications of nanoparticle technology
- Contributed to research paper editing and proofreading for journal submission

## PROJECTS

### Drive Doctor, Software Design Lab Project

Aug. 2023 - Dec. 2024

- Worked with team of 3 to develop a Google Chrome extension for efficient Google Drive file management and organization, using HTML, CSS, JavaScript, and Python
- Linked Python backend to frontend with Flask-based RESTful API server
- Integrated file fetching and creation, Google OAuth authentication, and API calls into extension with PyDrive2

### Market Cappers, Introduction to Computer Science I Honors Project

Aug. 2023 - Dec. 2023

- Collaborated with a team of 4 to develop a market cap guessing game using HTML, JavaScript, and CSS
- Implemented real-time data fetching using Selenium for web scraping algorithm

## LEADERSHIP

### CS Student Ambassadors/Research Scholars (CS STARS)

Aug. 2024 - Present

- Conducting undergraduate research in the Siebel School for Computing and Data Science
- Leading initiatives to recruit and empower K-12 students and women in computer science

### Badminton for Fun, Event Coordinator

July 2024 - Present

- Manage practice areas and enforce rules for a 120+ member club, dedicating 5 hours weekly
- Oversee membership records, event planning and organization, and club logistics

## PUBLICATIONS

- *Chemical Engineering Research and Design*: "Micelle morphology phase diagram in a phospholipid, PEGylated lipid, and peptide amphiphiles ternary system", Volume 181: 354-362, May 2022.