Kangyu Feng

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EDUCATION

University of Illinois at Urbana-Champaign   Aug. 2024 - Present

Master of Computer Science: Siebel School of Computing and Data Science   Overall GPA: 4.00/4.00

Funded Role: Research Assistant (Siebel School of Computing and Data Science, Aug. 2024 – Dec. 2024); Research Assistant (Engineering Administration, Jan. 2025 – Apt. 2025)

University of Illinois at Urbana-Champaign   Aug. 2020- May 2024

Bachelor of Science: Computer Science in Grainger Engineering   Overall GPA: 3.98/4.0

Deans List: Fall 2020, Spring 2021, Fall 2022, Spring 2022, Fall 2023, Spring 2023

Related Course: Data Structures (A+), Database Systems (A), Algorithms (A), System Programming (A+), Data Mining (A), Artificial Intelligence (A), Machine Learning (A+), Deep Learning For CV (A), Audio Processing (A)

TEACHING & ADVISING

MATH 231: Calculus II   *Teaching Assistant*   Jan.2025 - May. 2025
- Contributed to course content development, primarily focusing on designing and developing Python programming-related problem sets.
- Monitored the course forum and provided assistance with Python-related questions and clarifications.

CS 519: Scientific Visualization   *Course Assistant*   May. 2023 – Aug. 2023
- Contributed to course content development, primarily focusing on designing and developing Python programming-related problem sets.
- Monitored the course forum and provided assistance with Python-related questions and clarifications.

CS 357: Numerical Methods I   *Course Assistant*   Dec. 2022 – May.2024
- Assisted the professor during class sessions, facilitating group activities and providing student support. Conducted weekly in-person office hours to address questions regarding course materials, assignments, and machine projects.
- Contributed to course content development, created and reviewed coding questions for quizzes, designed Group Activity

ACM's Mentorship Program   *Mentor*   Jun.2022 – Dec. 2022
- Provided one-to-one mentorship to a new coming student, answered student's questions about major, course selection, and college life

CS 124: An Introduction to Computer Science   *Course Assistant*   Aug. 2021- Dec.2021
- Got CA training course (CS 199-CA), learning how to become a good CA
- Taught students in CS 124, instructed students to complete their homework and answered their questions in the online meeting.

PUBLICATIONS

Implementing a Tool for Structured Roles in Hybrid Collaborative Learning Environments

ASEE 2025 Annual Conference & Exposition, June 2025

A Comprehensive Redesign of CS1 for Engineering Students

ASEE 2025 Annual Conference & Exposition, June 2025

RELATED EXPERIENCE

GATE Project - Updating CS 101 to Meet Current College Meets   Sept. 2023 - Present

Research Assistant   *Supervisor: Mariana Silva, Teaching Associate Professor*

Mattox Beckman, Teaching Associate Professor

- Interviewed with professors from other departments, discussed the new content for CS 101 as a service course

- Developed new Homework questions, designed a new course syllabus, migrated the course content that was hosted on Relate to [Prairielearn](#).
- Designed mini-project assignments, improved the content to fit various engineering topics, deployed the [POGIL](#) method for interactive learning.

Discover AI & Apply AI Program   Mar. 2022- Dec. 2022

Participant   *Mentor: Suhani Vora, Google researcher*

- Engaged in studying artificial intelligence, gaining knowledge of foundational models and concepts.
- Collaborated with students from different universities and completed a project under the guidance of a mentor employed at Google.
- Utilized real estate data (900K) from the United States (2017-2020) to construct a linear regression model that predicts property prices based on property size and area.

Women in Computer Science   Feb. 2022- Apr. 2022

Project Designer   *Supervisor: Hongye Liu, Teaching Assistant Professor*

- Utilized Python's BeautifulSoup4 library to scrape all information from the school's course website.
- Employed SQLite3 to store and manage course information as well as student account details.
- Utilized React to build the front end, designed webpages, the layout, and the appearance of the website.

Study on the application of deep learning in image recognition system   Sept. 2018- Jan. 2019

Research Assistant   *Supervisor: Wei Li, Professor*

- Coded and learned in the related field under the guidance of professors at Fudan University.
- participated in intensive training on Python, Tensorflow, Multilayer perceptron, Multilayer perceptron, Convolutional Neural Network (CNN), feedforward neural network (FFNN), Generative Adversarial Network (GAN), and so on
- Successfully built an image recognition program that can recognize and generate writing numbers

PROFESSIONAL EXPERIENCE

PrairieLearn, Inc   May 2025 - Aug. 2025

Incoming Developer Intern   *Remote*

- Being responsible for developing PrairieLearn question web elements to support the Calculus courses

ANE Logistics   Jun. 2024 - Aug. 2024

Specialist Tech Intern   *Hangzhou, China*

- Integrated multiple internal APIs into a unified query interface using Apache Calcite, enabling seamless data access across heterogeneous systems and simplifying the cost of maintenance and management for APIs
- Designed a standardized data access layer to abstract underlying APIs and improve the maintainability of the logistics management platform

Kali Technology (Shanghai) Co.   Jun. 2023 - Aug. 2023

Technology Department Intern   *Shanghai, China*

- Developed section of AI Q&A Assistant for the logistics management system to optimize workflow, adjusting the prompt to fit scenarios of the logistics app, and designing the corresponding user interface
- Participated in the construction of the Knowledge Base, a file system that clearly display the application framework and the usage of functionality, to clearly display the framework of the app for users

ORGANIZATION

UIUC Chinese Engineering Student Association (CESA)   Jan. 2023 - Present

Public Relations/Outreach Department Member

- Sought for collaboration with companies, secured $3,000 in sponsorships for CESA
- Helped to organize the main event for the organization, including transfer major conference
- Promoted the organization in organization events, encouraged the joining of new member

TECHNICAL SKILLS

Programming Languages and Tools: Python (Sympy, NumPy, TensorFlow, PyTorch), Java, C(CUDA), C++
Theoretical Knowledge: Data Structures, Algorithms, Databases, Data Mining, Machine Learning, Computer Vision

PROJECT

CardColony   Oct. 2022 – Dec. 2022
- A game developed on Unreal Engine 4 that included a complete currency and time system and card logic that gave users a high degree of freedom to drag and drop cards to form a card stack

UIUC Course Registry   Oct. 2022 – Dec. 2022
- A web application that aimed to combine the functionality of course information website and student enrollment website, supported by an over 100000-row self-designed database system

Open Flight Data Analysis   Oct. 2021 – Dec. 2021
- A graph-based program containing the BFS algorithm, PageRank, and Dijkstra algorithm with visualization functionality to show the connection between the airports

VOLUNTEERING EXPERIENCE

SISUBS Foundation   Jan. 2020- March. 2020
- Communicated with local government and organized to donate medical supplies to the remote area to fight against the Covid-19 epidemic in China.
- Organized to donate 2000 Medical Rubber Gloves and 1600 Medical Masks to the People's Hospital in Jiangyong County, Hunan Province. The value of supplies is a total of ￥8554(RMB, about $ 1353).

Shanghai Beautiful Mind Foundation   Jun. 2019 - Aug. 2019
- Managed the foundation's database, recording and tracking data pertaining to underprivileged children, provided analysis of financial data, worked on statistics on the foundation's income and expenditures
- Delivered academic support to economically disadvantaged students, offering a total of 40 hours of instruction in Mathematics and Physics, facilitated a smoother transition into the new semester, empowering students to excel in their learning journey