

Bingheng Li

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EDUCATION

University of Illinois Urbana-Champaign
Bachelor of Science in Statistics & Computer Science

Expected Graduation Date: May 2025
Cumulative GPA: 3.77/4.0

Relevant coursework Analysis, Computer Systems, Algorithms & Models of Computation, Database Systems

WORK & RESEARCH EXPERIENCE

Applied Technologies for Learning in Arts & Sciences Internship Champaign, IL
ATLAS / Machine Learning & Artificial Intelligence Intern Team (Language used: Python) August 2024 – Present

- Participated in the Kaggle Titanic Competition, achieving an accuracy score of ~ 0.79 using a Random Forest Classifier, with a focus on advanced feature engineering and hyperparameter tuning
- Analyzing a large 259-column dataset on UIUC admissions to build a model that predicts the likelihood of domestic students graduating after admission

SIGCOMM Community Health Research Project (Instructor: Dr. Matthew Caesar) Champaign, IL
Undergraduate Research Assistant (Language used: Python) May 2024 – August 2024

- Utilized Python data analysis libraries and graph algorithms to analyze co-author and publication datasets, evaluating the health of the SIGCOMM research community
- Developed an innovative system for assessing research community health through collaboration patterns, geographic diversity, publication impact, and inclusivity of young researchers
- Authored a research paper detailing the methodology, findings, and implications of the study

Caesar Research Group PeopleWeave Project Champaign, IL
Member of the Data Team (Language used: Python) March 2024 – May 2024

- Contributed to building a platform for researchers to communicate with each other
- Developed a web scraper capable of extracting conference information from the ACM official website, effectively dealing with a series of problems including IP blocking
- Designed a program to analyze the output of ACM and IEEE web scrapers and assess the similarities by comparing parameters such as university affiliation or researcher's name

Shenzhen Han Industrial Technologies CO, LTD Shenzhen, China
Algorithm Intern (Language used: Python) June 2023 – August 2023

- Analyzed the public COCO dataset and the private industrial Magnetic Tile dataset
- Compared and analyzed models that are used in object detection and semantic segmentation, especially YOLOv8, ViT, and DETR
- Helped with improving model evaluation metrics that are used in industrial defect detection, specifically incorporating the concept of 'NG' and 'OK' into the evaluation

AFFILIATIONS & ACTIVITIES

Datathon Competition 2023 (Language used: Python)
University of Illinois Urbana-Champaign, Champaign, IL March 2023

- Won the "Top 10 Prediction" award as a team in the competition, where the goal is to predict the total amount of charges offs among U.S. banks
- Combined the data from major U.S. banks with the macroeconomic data of U.S. from 2018 to 2019 to build and train the CPH model with survival analysis skills

Universal Agenda (Language used: Java)
University of Illinois Urbana-Champaign, Champaign, IL September 2022 – December 2022

- Created a phone app using Android Studio that collects courses information from several school websites (Moodle and Canvas) so that students can access the materials easily
- Utilized Selenium to build a web-crawler to access information from school websites
- Cleaned the retrieved data and transferred it into JSON format to be stored in the backend

SKILLS

Language: Mandarin (fluent), English (fluent)

Programming: C++ (fluent), Python (fluent), R (fluent), SAS (fluent), SQL (fluent), Java (intermediate)

Microsoft: PowerPoint (fluent), Word (fluent), Excel (intermediate)