

JIAYUE SHI

Champaign, IL 61820

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Education

The University of Illinois Urbana-Champaign

Bachelor of Science in Computer Science

[Excepted] Aug 2023 – May 2025

Champaign, IL

The Pennsylvania State University

GPA: 3.63/4.00

Aug 2021 – May 2023

State College, PA

Relevant Coursework

- | | | | |
|--------------------|-----------------------|---------------------------|-------------------------|
| • Data Structures | • Algorithms Analysis | • Artificial Intelligence | • Numerical Method |
| • Machine Learning | • Database System | • Website Development | • Computer Architecture |

Projects

Marketing Analytic with Python and ML | *Python, Numpy, Machine Learning*

Aug 2023 - Present

- Leveraged Python, Numpy, Pandas, and Scikit-Learn to implement machine algorithms for marketing analytic. Developed predictive models to optimize marketing strategies and improve decision-making
- Demonstrated proficiency in data processing and multicollinearity datasets. Enhanced model accuracy and interpret-ability through feature engineering techniques

Postpartum Depression Data Analysis | *Python*

May 2023 - July 2023

- Analyzed and collected **200** data sourced from the TriNetX Research Network using Python for data manipulation and analysis, identifying the relationship between other disease and postpartum depression
- Processed **10K** electronic health records (EHR) data by **Python** and assess the prevalence and impact of different disease on the occurrence and severity of postpartum depression
- Provided research findings and conclusions about the relationship between postpartum depression and other health conditions

Inventory Management | *SQL*

Aug 2023 - Present

- Designed a relational database schema for inventory management, including tables for products, categories, supplies, and transactions
- Developed a command-line interface (CLI) allowing users to perform tasks like adding products, updating details, tracking inventory, and generating basic reports using **SQL** queries.
- Demonstrated proficiency in SQL database design, data management, and basic reporting, showcasing practical application and problem-solving abilities

Technical Skills

Languages: Python, Java, C++, HTML/CSS, SQL

Developer Tools: VS Code, Xcode, IntelliJ IDEA

Technologies/Frameworks: GitHub, WordPress

Leadership / Extracurricular

Penn State Association for Computing Machinery Webmaster

Spring 2023

Webmaster

The Pennsylvania State University

- Led the development and upkeep of PSU ACM's website, focusing on user experience and engaging design.
- Organized diverse content, ensuring timely updates and relevant information for the computing community.
- Applied technical expertise to resolve issues promptly, enhancing website performance, security, and accessibility.

College Experience

- Received recognition on the Dean's List for both freshmen and sophomore years
- Lead Global Lion Ambassador Program
- Co-coordinated Cleveland Trip: Volunteer activity
- Co-coordinated the EECS Mentor Collective Program
- Participated in a Multi-Campus Research Experience for Undergraduates program
- Recipient of the Clark Association Scholarship for academic excellence and community involvement
- Engaged with Women in Computer Science program at UIUC