

Amaan Khan

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EDUCATION

University of Illinois at Urbana-Champaign

Champaign, IL

B.S in Computer and Information Sciences.

May 2025

Relevant Courses: Artificial Intelligence, Computer Systems, Machine Learning, Data Structures, Web Development, Data Visualization, Data Management, Database Design and Prototyping, Data Science, Program for Info Problems, Prob and Stats, Database Concepts, Project Management.

PROFESSIONAL EXPERIENCE

Data Science Course Assistant and Software Developer

August 2023 – Present

University of Illinois at Urbana-Champaign

Champaign, IL

- Solved **1000+** tickets during office hours to assist students in data science techniques.
- Assisted in preparing lectures on topics, including data analysis, machine learning, and statistical modeling.
- Participated in faculty meetings and professional development sessions to stay updated on the latest trends.

Undergraduate Research Intern

January 2024 – August 2024

University of Illinois at Urbana-Champaign

Champaign, IL

- Led a team of **7 researchers** in developing a loan approval platform using linear regression to enhance accuracy.
- Contributed to full stack development integrating AI models with web services for real-time decision-making.
- Designed a user-friendly interface using REACT which increased customer applications by **40%**

Data Analysis Intern

May 2023 – August 2023

REMEA

Remote

- Employed Python and Pandas to process data for 10+ datasets, increasing data accuracy and usability by **40%**.
- Enhanced data visualization and reduced meeting times by **30%** through clearer communication of key metrics.
- Collaborated with cross-functional teams to gather and understand data requirements for various projects.

PROJECTS

Paper Trading Software | *Python, Flask, React, PostgreSQL, Docker*

March 2024

- Designed a simulation-based trading platform with real-time market data with **zero risk exposure**.
- Implemented portfolio management features, **reducing** user analysis time by **30%**.
- Integrated analytics and reporting tools that improved user decision-making efficiency by **25%**.

Pong Game for Apple Watch | *Swift, WatchOS, SpriteKit, CoreMotion*

March 2024

- Developed a minimalist pong game using **Digital Crown** for paddle control for intuitive gameplay on WatchOS.
- Optimized game mechanics to run efficiently on limited hardware, **reducing** battery consumption by **20%**.
- Designed a responsive interface and animations enhancing player engagement by **35%**.

University Course Registrar | *Python, Django, HTML, SQLite, Docker*

January 2024

- Implemented comprehensive unit tests and integration tests ensuring reliable performance.
- Refined user interface with CSS for enhanced responsiveness, leading to a **30%** increase in user satisfaction.
- Used Django and HTML for dynamic content updates, cutting down registration time by **50%**

Handwritten Number Recognition Software | *Python, Django, HTML, SQLite, Docker*

October 2023

- Developed and implemented a neural network model using **TensorFlow** and **NumPy** for digit classification.
- Utilized TensorFlow and Keras for model training and optimization, which **decreased the error rate by 40%**.
- Engineered image preprocessing pipeline for data normalization and reshaping to optimize model input.

SKILLS

Languages: Java, Python, C/C++, R, MySQL, NoSQL, JavaScript/TypeScript, HTML/CSS

Intrapersonal: Leadership, Team Management, Communication, Team Building, Responsibility.

Software: AutoCAD, NX, Microsoft Office, Google Cloud, iOS, Azure, Amazon Web Services

Hardware: Hardware Testing, Circuit Building, Robotics, Fixing devices, Agile Development

Other: UI/UX, Human-Computer Interface, Data Analytics, Web Design, Product Design, Graphic Design, Editing