

# Rebecca (Becky) Blake

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## EDUCATION

**University of Illinois at Urbana-Champaign, Grainger College of Engineering**

**Aug 2021 – Dec 2025**

*Bachelor of Science in Computer Science / Master of Computer Science (Fifth Year Masters)*

**Overall GPA: 3.97/4.00**

**Relevant Coursework:** Data Structures, System Programming, Algorithms & Models of Computation, Programming Languages & Compilers, Database Systems, Data Visualization, Artificial Intelligence, Applied Machine Learning, The Art of Web Programming, Software Engineering

## WORK EXPERIENCE

**J.P. Morgan Chase & Co**

Software Engineer Intern, Chicago, IL

**Jun 2024 – Aug 2024**

- Automated commercial card manual reconciliation process using Python and Pandas, significantly reducing processing time from ~6 minutes to ~0.2 minutes per account
- Collaborated closely with analysts to translate complex reconciliation logic into efficient, accurate code with thorough pytest unit testing, ensuring alignment with business requirements

Software Engineer Intern as part of Engineering City Scholars, Chicago, IL

**Feb 2024 – May 2024**

- Built and tested E2E data pipeline for processing batch files from Amazon S3 using Databricks, Python, and SQL, as part of a data pipeline modernization proof of concept (POC)
- Improved runtime of existing ETL by 90%, collaborating in team of five and practicing agile methodology

**Capital One**, Business Analyst Intern, McLean, VA

**Jun 2023 – Aug 2023**

- Analyzed over 15M rows across multiple data tables in Snowflake warehouse from remarketing campaigns for the auto finance pre-approval program using SQL to identify insightful patterns and trends
- Created graphs and charts using Google Sheets to present recommendations to optimize the pre-approval website's performance, focusing on increasing consumer registrations and application submissions for auto loans

**EntreCORPS** - a student-based growth and innovation strategy consulting firm for start-ups

Consultant → Technical Senior Consultant, Champaign, IL

**Sept 2022 – Dec 2023**

- Guided and supported first-time consultants, including assisting with research methodologies and presentation skills and ensuring all deliverables met or exceeded client expectations
- Developed interactive graphical applications for financial literacy start-up and leveraged my self-taught knowledge of Pygame to educate and train junior consultants on its usage

**UIUC Dept of Computer Science**, Undergraduate Researcher for Professor Colleen Lewis, Urbana, IL

**Jun 2022 – Aug 2022**

- Developed teaching methods using physical objects to teach Java with overall goal of making computer science more accessible as part of Physical Representations of Programming Concepts program
- Wrote and presented a Process Oriented Guided Inquiry Learning (POGIL) activity to Chicago Public Schools Advanced Placement Computer Science teachers at three-day workshop hosted by Discovery Partners Institute

## PROJECTS

**JPMorgan Chase Code for Good Hackathon**, Thrive for Girls

**Oct 2023**

- Collaborated in six-person team to develop a web application to educate at-risk girls to combat sex trafficking
- Designed and implemented user authentication system, leveraging React for the frontend and Flask for handling API requests and interacting with the MongoDB database

**Women in Computer Science Dev Ada**, Virtual Closet

**Jan 2023 – May 2023**

- Developed a virtual closet using React and Firebase with two other students to help people manage their wardrobe
- Implemented user interface to dynamically retrieve and display data from Firebase Firestore in an interactive image carousel
- Won 2<sup>nd</sup> place at Women in Computer Science's Dev Ada and exhibited project at UIUC Engineering Open House

## TECHNICAL SKILLS

**Programming Languages/Frameworks:** Python, Java, JavaScript, C/C++, R, HTML/CSS, React, SQL, PyGame, Matplotlib, Pandas, NumPy, Flask, Scikit-Learn

**Tools/Applications:** Figma, Firebase, MongoDB, Git, Docker, Google Cloud, AWS, Databricks, Snowflake, Tableau

## ACTIVITIES AND HONORS

Engineering City Scholars Program (JPMorgan Chase)  
Capital One Diversity Summit for Developing Leaders  
Deloitte Consulting UIUC Leadership Conference  
Women in Computer Science (Mentorship Committee)

Innovation Living-Learning Community  
Illini Strings Orchestra (Violin)  
Hamer Foundation Scholarship  
James Scholar Honors Program