

# Rebecca (Becky) Blake

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## EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science, Dean's List

Expected May 2025

GPA: 4.00/4.00

Hinsdale Central High School

AP Scholar with Distinction

Completed May 2021

GPA: 4.92/5.00 (unweighted) and 5.74/6.00 (weighted)

**Computer Science/Math Coursework:** Intro to Computer Science I and II, Discrete Structures, Software Design Lab<sup>F</sup>, Data Structures<sup>F</sup>, Computer Architecture<sup>F</sup>, Intro to Cybersecurity<sup>F</sup>, System Programming<sup>S</sup>, Ethical and Professional Conduct<sup>S</sup>, System Programming<sup>S</sup>, Calculus III, Linear Algebra, Numerical Methods I<sup>S</sup>

**Innovation/Engineering Coursework:** Intro to Innovation, From Idea to Enterprise, Lecture in Engineering Entrepreneurship, Design Thinking/Need Finding<sup>F</sup>, Creativity/Innovation/Vision<sup>S</sup>, Developing Breakthrough Projects<sup>S</sup>, Engineering: Career Ready, University Physics: Electricity & Magnetism

**Business Coursework:** Microeconomic Principles, Technology & Management Seminar<sup>F</sup>

<sup>F</sup> – Enrolled for Fall 2022, <sup>S</sup> – Anticipated for Spring 2023

## WORK EXPERIENCE

University of Illinois, Undergraduate Summer Researcher for Professor Colleen Lewis      June 2022–August 2022

- Developed teaching methods using physical objects to teach Java with the overall goal of making computer science more accessible as part of the [Physical Representations of Programming Concepts](#) program
- Performed experiments with physical Java memory models that test the effectiveness of physical objects as teaching tools for students
- Wrote and presented a Process Oriented Guided Inquiry Learning (POGIL) activity about arrays and loops to Advanced Placement Computer Science A (APCSA) teachers and students from Chicago Public Schools at a three-day workshop hosted by the [Discovery Partners Institute](#)

Capital One, Diversity Summit for Developing Leaders (SDL) Participant

May 2022

- Designed and pitched innovative Mainstreet credit card to help students and recovering credit users build up their credit score by engaging with a financial literacy curriculum
- Researched target customer segments and formulated strategies on how to market the product towards each segment

## PROJECT HIGHLIGHTS

Eatable (Android Studio app)

October 2021–December 2021

- Implemented an app using Java and Android Studio that recommends local restaurants using a stored record of the user's restaurant preferences
- Collaborated with coding partner and kept a schedule of communication to stay on top of app development in a pair-programming environment

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C++

**Tools and Applications:** Android Studio, Spyder, Microsoft Office, Google Drive, VS Code

**Spoken Languages:** English, Spanish (basic)

## ACTIVITIES AND HONORS

Innovations Living-Learning Community

Hamer Foundation Scholarship

Alpha Lambda Delta Honor Society

Women in Computer Science

Illini Strings Orchestra (violin)

Intro to Computer Science I (CS 124) Course Assistant