

# Emily Robinson

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Chicago, IL

## Education

**Cornell University, College of Arts & Sciences**  
Bachelor of Arts in Computer Science

Ithaca, NY  
May 2023

**Related Courses:** Foundations of Artificial Intelligence, Practicum in AI, Intro to Machine Learning, Theory of Algorithms, Data Structures and Functional Programming, Data-Driven Web Applications, Operating Systems

## Technical Skills

- **Programming Languages:** Python, Java, OCaml, Bash, SQL, HTML5, CSS3, JavaScript, OOP Programming
- **Libraries/Frameworks:** React, NLTK, NumPy, Pandas, jQuery, D3, TensorFlow, OpenAI
- **Tools/Platforms:** Git, GitHub, VS Code, Eclipse, Figma, Tabular, Jupyter Notebook, APIs
- **Microsoft Office Suite:** Excel, Word, PowerPoint

## Work Experience

### PairUp

Remote

*Software Engineer Intern*

June 2022-August 2022

- Devised a **React** web application containing a dynamic, toggleable segmented bar graph of user statistics using **react-vis**, which provided insights into mentor-mentee pairing decisions for the company and users
- Created a secondary React application to analyze user data using **SQL** queries to the company's databases
- Extracted statistics on user engagement to help PairUp assess platform utilization frequency

### CR Market Surveys

Remote

*Website Designer & Data Analyst*

September 2022-Present

- Revamped and maintained the business' website to enhance marketability and improve user experience.
- Conducted consumer surveys using **Qualtrics** and synthesized collected data in **Excel**. Analyzed the data to uncover meaningful insights into consumer behaviors and provided valuable feedback to companies targeting specific audiences

### Cornell University Unix Course

Ithaca, NY

*Consultant (Teaching Assistant), Cornell University*

January 2023-March 2023

- Led weekly consulting sessions for over 20 students, providing guidance on course materials and assignments
- Contributed to bi-weekly staff meetings, offering important insights for course improvement

## Dev Experience

### Restaurant Recommendation AI Project

Ithaca, NY

*Practicum in AI, Cornell University*

January 2023-May 2023

- Collaborated with a team of two software engineers to develop an advanced AI system that leverages Yelp data to provide top restaurant recommendations
- Utilized **TensorFlow** to design and implement a robust **neural network model**, incorporating Principal Component Analysis (**PCA**) techniques to dynamically adjust scoring algorithms for enhanced accuracy
- Developed a user-friendly terminal interface, allowing users to seamlessly interact with the AI system, perform refined searches, and access personalized restaurant recommendations through seamless integration with the **Yelp API**

### AI Pac-Man Project

Ithaca, NY

*Foundations of Artificial Intelligence, Cornell University*

February 2023

- Designed an **AI** to play Pac-Man with the option of using search algorithms (**DFS**, **BFS**, **UCS**, or **A\***)
- Included **alpha-beta pruning**, **expectimax**, and **minimax** algorithms to improve the AI's decision-making policy

## Interests

Painting, Drawing, German (Intermediate), Wordle, Vox's *Unexplainable* podcast, Scrabble, DIY home projects, Spades