

# Patrick Chen

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## EDUCATION

### Cornell University, College of Engineering

*Candidate for Bachelor of Science*

**Ithaca, NY**

*Expected May 2024*

- Major: Computer Science; Minor: Data Science
- Honors: Dean's List SP 2021, FA 2021
- Cumulative GPA: 3.7
- Relevant Coursework: Analysis of Algorithms, Machine Learning, OOP and Data Structures, Data Structures and Functional Programming, Discrete Structures, Computing using Python, Linear Algebra, Multivariable Calculus, Digital Logic and Computer Organization

## EXPERIENCE

### U4Ea

*Software Developer Intern*

**Remote**

*December 2021-January 2022*

- Generated a database of over 2500 synonyms for a text mood analyzer by web scraping using BeautifulSoup
- Automated scoring of large pieces of media by developing a scoring system using Python
- Employed natural language processing to compute relevant heuristics based on user inputted song names using Genius API

### The Wardrobe

*Backend Developer*

**Ithaca, NY**

*September 2021-Present*

- Implemented a database for managing users and processing 200+ orders per semester using Node.js and SQL
- Staffed winter pop-up shop which distributed free professional clothing to 300+ Cornell students

### Cornell University ChemE Car

*Electronics Subteam Member*

**Ithaca, NY**

*March 2021-December 2021*

- Built Arduino controlled circuits for model cars that are powered and operated by chemical reaction
- Optimized stopping mechanism by researching Hall Effect magnetic sensors

### Cornell Computer Reuse Association

*Member*

**Ithaca, NY**

*February 2021-Present*

- Repurposed and packaged 20+ computers per semester for schools in Liberia and Zambia

## PROJECTS

### My Journal

*January 2022-Present*

*Web application that allows users to create private or public journal entries*

- Individually developed the frontend and backend using the MERN (MongoDB, Express.js, React.js, Node.js) stack
- Secured user account information in database using MongoDB Atlas and bcrypt.js

### Big Red Talks

*January 2022*

*iOS mobile application that connects verified Cornell students to a live campus-wide chatroom*

- Developed a RESTful API to host users and messages using Node.js, Express.js, Mongoose, and MongoDB Atlas
- Deployed backend as a live server using Heroku for use on multiple devices

### Synonym Finder

*January 2022*

*Python program that allows users to find synonyms*

- Created a GUI to input multiple words/phrases and output a list of synonyms using BeautifulSoup and Tkinter

### <https://patchen2002.github.io/>

*July 2021-August 2021*

*Personal website*

- Developed a personal website using HTML and CSS to display portfolio

## SKILLS

Languages      Java, Python, Javascript, OCaml, HTML/CSS, Verilog, Assembly, LaTeX

Technologies    Node, React, Express, MongoDB, Git, Mongoose, Redux, Postman, BeautifulSoup, VSCode