

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: 3.65
- Relevant Coursework: OOP and Data Structures, Discrete Structures, Intro to 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
- Developed algorithms for generating a score 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 and interact with

- 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

PERSONAL

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

Technologies React.js, Node.js, Express.js, MongoDB, Mongoose, Redux, Postman, BeautifulSoup, VSCode

Interests Volleyball, Cooking