

Patrick Chen

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EDUCATION

Cornell University, College of Engineering

Candidate for Bachelor of Science

Ithaca, NY

Expected May 2024

Cumulative GPA: 3.7

- Major: Computer Science | Minor: Math
- Relevant Coursework: Analysis of Algorithms, Machine Learning, OOP and Data Structures, Data Structures and Functional Programming, Discrete Structures, Python, Linear Algebra, Multivariable Calculus, Digital Logic and Computer Organization

EXPERIENCE

Pegasystems

Incoming Software Developer Intern

Remote

May 2022-August 2022

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 Python and BeautifulSoup
- Automated scoring of large pieces of media such as articles and song lyrics 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 creating/managing users and processing 200+ orders per semester using Node.js and SQL
- Staffed winter pop-up shop which distributed free professional clothing and winter clothing to 300+ Cornell students

Cornell University ChemE Car

Electronics Subteam Member

Ithaca, NY

March 2021-December 2021

- Built and maintained Arduino controlled circuits to supply power for model cars that operated based on a photodiode sensor
- Optimized stopping mechanism and data collection by researching use and implementation of Hall Effect magnetic sensors

PROJECTS

Stabler Coin: Cornell FinTech Club x Avalanche Hackathon

April 2022

Javascript/Blockchain

- Stabler Coin is an over-collateralized, decentralized, and diversified stable coin that pays users interest simply for owning it
- Worked in a team of four to create a smart contract and mint a token using Solidity, coded the frontend in React and Tailwind

Risk

February 2022-Current

OCaml

- Implemented a terminal-based version of the popular board game Risk, allowing for local play with up to four players
- Spearheaded the development of the fortify portion along with assisting with the attack stage and control line output/user input

My Journal

January 2022-April 2022

Full Stack Development

- A web application that allows users to create an account and then create private or public journal entries that other users can see
- Individually created 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 to prevent tampering with database

Big Red Talks

January 2022

Backend Development

- Mobile application that connects verified Cornell students to a live campus-wide chatroom where they can interact with others
- 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
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SKILLS & INTERESTS

Languages Java, Python, Javascript, OCaml, HTML/CSS

Technologies Node.js, React.js, Express, MongoDB, Git, Postman, BeautifulSoup, VSCode