

David Thuman

Linkedin: <https://www.linkedin.com/in/david-thuman/>

Github: <https://github.com/davidthuman>

Website: <https://davidthuman.org>

Email : davidmthuman@gmail.com

Mobile : (910) 790-5616

EDUCATION

- **Cornell University** Ithaca, NY
Bachelor of Science in Engineering Physics, Computer Science, Minor in Public Policy; GPA: 3.64 Aug 2019 - May 2023
Courses: Object-Oriented Programming, Data Structures and Functional Programming, Operating Systems, Embedded Systems, Introduction to Computer Networks, Natural Language Processing.

SKILLS SUMMARY

- **Languages:** Python, Typescript, Javascript, C, SQL, Unix scripting
- **Tools:** React JS, Next JS, Docker, NGINX, GIT, Postgres, Django, Arduino, NLP, ML

EXPERIENCE

- **Student Software Developer** Ithaca, NY
Conference & Event Services, Cornell University Aug 2022 - Current
 - **Contract Builder Tool:** Using a RESTful API to connect to a database, I created a Python program to automatically create legal contracts for a given conference. The program uses LaTeX template and inserts data to create a PDF. The program is containerized using Docker.
 - **Summer Housing Solution:** A custom algorithm called CHAPI was created to give housing solutions for conferences and programs during the summer season. Event Planners can give preferences to guide the algorithm's end solution.
 - **CRUD Web App:** Using React JS, Django, and PostgreSQL, a basic CRUD web application was created to allow Event Planners to track Request For Proposals through their lifespan. The web app is containerized with Docker and served with NGINX.
- **Political Content Writer** Remote
Purple Pill Nov 2021 - Jun 2022
 - **Writer and Editor:** Part-time writer and editor for a political news start-up called Purple Pill. Political articles range from the legislative process and social issues to foreign affairs. 1-2 articles a week.
- **Student Academic Service Assistant** Ithaca, NY
Cornell University Aug 2021 - December 2022
 - **AEP 3200: Introductory Mathematical Physics (Spring 2022):** Working around 7 hours a week, myself and other TAs worked as a team to write solutions for and grade homeworks and exams, hold office hours for students, and discuss the progression of students.
 - **AEP 4200: Intermediate Mathematical Physics (Fall 2021, 2022):** Ibid

PERSONAL PROJECTS

- **Personal Website (Full-stack, NGINX):** Build a frontend using Next JS and TailwindCSS. A PocketBase database serves as a CMS to hold content. This stack is hosted on a Linode server running NGINX to self-host the website.
- **Congressional Roll-call Predictor (Python, PyTorch):** Using a neural network, I built a predictive model for roll-call votes in the Senate. Using Python and TensorFlow, I was able to web-scrape data from congress.gov and senate.gov, clean and process the data, and then train a neural network to predict a specific senator's roll-call vote on a given piece of legislation, using word features from the document. (Sep 2022)
- **Weekly Schedule Analysis (Python, Data Science):** Beginning Fall 2021, I tracked my actions in 15-minute blocks. Using Python, I processed and analyzed the data, calculating how I spent my time as a Cornell University student. Classifications were Work, Life, Food, and Sleep. Further breakdowns were used to break up courses, time with friends, or general fun. Matplotlib Python library was used to visualize the breakdown of my life, semester by semester. (Dec 2021)

LEADERSHIP

- **President of The Pi Kappa Alpha Fraternity - Beta Theta Chapter at Cornell University:** Lead an Executive Board of 11 members through teamwork, leadership, and delegation. Our organization consists of over 65 members, with a budget of over 200,000 dollars. Direct the Executive Board to represent and increase our fraternity's philanthropy, community service, and social efforts.
- **External Vice President of The Pi Kappa Alpha Fraternity - Beta Theta Chapter at Cornell University:** Maintain a budget of over \$20,000 each semester while leading a team of seven Chairmen with their committees. Chair positions and I work to increase the Fraternity's relations with outside communities, raise money for philanthropy causes, and volunteer for community service projects. Manages the website/social media, philanthropy events, community service hours, athletics rosters, and special events planning. As EVP, the other Executive Board members and I held weekly meetings to discuss the progress and state of the Fraternity.