

# AMBROSE BLAY

❖ [ambroseblay.dev](https://ambroseblay.dev) ❖ [LinkedIn](#) ❖ [GitHub](#) ❖ [ab2838@cornell.edu](mailto:ab2838@cornell.edu)

## EDUCATION

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**Cornell University** – Ithaca, New York, USA

Graduating May 2027

**Major:** Computer Science

**GPA:** 3.9/4.0

**Relevant Coursework :** Intro to Computing (Python), Intro to Backend Development, Calculus I

## EXPERIENCE

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**Cornell AppDev Hackathon**

November 2023

*Software Developer*

- Collaborated with a team of Product Designers and Front-end developers to build a fully functional iOS app that enables Cornell students to form and join study sessions
- Built a SQLAlchemy backend to store user data and handle authentications
- Built a Flask API to enable users to create, join, filter and exit study sessions

**Ishara – Kumasi/Remote**

July 2022 - August 2023

*Volunteer Software Engineer*

- Worked on building a fully responsive web application using HTML, CSS, JavaScript
- Improved data collection by creating custom Typeforms, yielding a 200% increase in our user database
- Integrated SendGrid's email API into the backend, enhancing user communication with personalized and timely emails

## PROJECTS

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**UniNav**

[youtube.com/uninav](https://youtube.com/uninav)

- Built a SQLAlchemy database for an app that shows real-time data about occupied lecture rooms in Cornell campus buildings.
- Scrapped ~13600 class schedules from Cornell's public roster into an SQL database with BeautifulSoup
- Built a Flask API to enable users query the database by lecture location and time
- Integrated Gmail API into backend to send lecture schedules to user email
- Containerized on Docker and deployed on Google Cloud

**Weather App**

[github.com/weather](https://github.com/weather)

- Developed a feature-rich weather application focused on providing personalized clothing recommendations
- Used Open Weather API to retrieve real-time weather data.
- Incorporated a Celsius/Fahrenheit toggle switch, allowing users to choose their preferred temperature unit
- Built using HTML, CSS, and JavaScript and deployed on GitHub Pages.

**Time management automator**

[github.com/time-mngt](https://github.com/time-mngt)

- Time management automation script to track my coding hours using Python and Google Calendar API
- Record coding hours into an SQL Database and reflect them on my Google Calendar

**Wordle Clone**

[youtube.com/wordle](https://youtube.com/wordle)

- Designed a command-line version of the popular game 'Wordle' with Python
- Incorporated Rich library to add color and aesthetic appeal to the gameplay.

## SKILLS

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- **Programming languages:** Python, Node.js, React.js, Flask, SQLAlchemy, HTML 5, CSS 3, TailwindCSS
- **Worked with:** Docker, BeautifulSoup, APIs, SendGrid, Git, Postman, Google Cloud, Turtle, Rich, Pillow

## EXTRACURRICULAR ACTIVITIES

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**Member, Cornell Association of Computer Science Undergraduates**

August 2023 - Present

- Participate in monthly employer sessions to explore various companies and career opportunities in CS

**Mentor, YAF Ghana**

Jan 2023 - Present

- Guides Ghanaian High School graduates through college application process and towards a career in Tech

**Member, Cornell Underrepresented Minorities in Computing**

August 2023 - Present