

# AMBROSE BLAY

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## 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

## 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

## EXPERIENCE

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**Culture Care - Fullstack Developer - Ithaca, NY**

December 2023

- Developed React-based online forms, facilitating seamless onboarding for clients and matching over 30 patients to suitable BIPOC therapists.
- Connected the React frontend to a Flask/SQLAlchemy backend using Fetch, reducing system latency by 40%.
- Contributed to product testing, ensuring alignment with client requirements and timely delivery.

**Cornell AppDev Hackathon - Backend Developer - Ithaca, NY**

November 2023

- 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
- Created a SQLAlchemy backend to store user data and handle authentications
- Implemented a Flask API to enable users to create, join, filter and exit study sessions

**Ishara - Volunteer Software Developer - Kumasi/Remote**

July 2022 - August 2023

- 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**

[www.uninav.info](http://www.uninav.info)

- Developed a full stack web 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 and a React.js frontend for easy user interactivity
- Deployed on Heroku and currently serving 50+ students

**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 and ChatGPT API for clothing recommendations.
- 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

## 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

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

**Member, Cornell Underrepresented Minorities in Computing**

August 2023 - Present