AMBROSE BLAY

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EDUCATION

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

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

UniNav   **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**
- 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**
- 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**
- 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

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

EXTRACURRICULAR ACTIVITIES

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