JEPHTHAH MENSAH

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EDUCATION

Cornell University – Ithaca, New York, USA   Graduating May 2026
Major: Computer Science   **Honors**: Dean's List
Relevant Coursework : Object-Oriented Programming and Data Structures (Java), Calculus 3, Discrete Math
Course Assistant:
Calculus 1 & 2 (500+ students)   Aug 2023 - Dec 2023
Introduction to Computing: A Design & Development Perspective(500+ students)   Aug 2023 - Dec 2023

EXPERIENCE

Kehillah Ghana Limited – Remote   June, 2023 - Aug 2023
Software Engineering Intern
- Used Zoom APIs to create a server-server OAuth Zoom python app with an automated webhook feature for seamless retrieval and uploading of users' Zoom recordings to S3 buckets
- Developed the backend of a data collection and viewing web application using Django
- Implemented API endpoints and Django models for features like users, datasets, organizations, files, user comments, likes, tags, and bookmarks
- Leveraged AWS S3 to securely store image files, ensuring data integrity and accessibility
- Implemented token-based authentication using JSON web token to secure users' data
- Integrated Google Cloud, Postman and Docker to optimize deployment, testing, and scaling of the API

Harmony's Room – Cornell University   July, 2023 - Present
Full Stack Developer & Project Lead
- Develop a teenager friendly website with a user registration backend feature using React, CSS, and Django
- Develop a web app using django and React for connecting teenagers and mental health specialists

PROJECTS

Election Collation App(Backend) | Flask, SQLAlchemy
- Developed backend functionalities for an Election Collation web app using Flask, and SQLAchelmy
- Integrated secure user registration, logout, and login functionalities using JSON web tokens and two-factor authentication with PyOTP to ensure data security
- Created secure QR codes containing one-time password URLs and keys for secure user login credential distribution
- Efficiently processed large datasets of 40,000 rows from Excel files using Pandas to load data into a SQL database
- Developed an automated endpoint to transmit election results to the frontend at regular intervals

Election Collation App(Frontend) | RShiny
- Developed front end functionalities for an Election Collation web app using RShiny
- Created Summary Dashboards featuring pie charts, bar charts, and tables to visually analyze candidates' votes
- Implemented interactive filtering features within tables, enhancing user experience and data exploration
- Implemented frontend events to retrieve election results periodically, ensuring live updates of summary tables and dashboards

Study Partner API |Flask, SQLAlchemy
- Used Flask and SQLAlchemy to develop the backend of an app for finding a study partner
- Integrated the Google Maps API to accurately find study partners based on location
- Utilized Gmail API to allow users send request emails to their preferred study partner directly from the app
- Integrated AWS S3 to enable users to optimally upload profile images within the application

SKILLS

- **Programming languages**: Python, Java, C, JavaScript, React, Flask, SQLAlchemy, Django, Ocaml, Rhinoverse
- **Worked with**: Git, Figma, Postman, Docker, Google Cloud, AWS S3, Linux, dbdiagram.io

CAMPUS INVOLVEMENT

- **Underrepresented Minorities in Computing**, *Member*, Cornell University, August 2022 - Present
- **Girls Who Code**, *Tutor*, Cornell University