

# RAPHAEL APPAU FRIMPONG

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## EDUCATION

**Grambling State University** – Grambling, Louisiana, USA

Graduating May 2028

Bachelor of Science in Computer Science

**Relevant Coursework:** Introduction to Computing, Modern Web Development, Calculus, Object-Oriented Programming, and Data Structures (in progress)

## SKILLS

- Python, JavaScript, C, TypeScript, HTML, CSS, OpenAI API, RAG, LLM
- React, MUI, Flask, Next.js, Git, Firebase, AWS EC2, Vercel, Django, OpenWeatherMap API, News API

## WORK EXPERIENCE

**Pinnacle Labs:** *Web Development Intern* (Remote)

10/2024 – Present

- Develop and maintain responsive websites using HTML, CSS, JavaScript, Django, and React.
- Collaborate with cross-functional teams to ensure smooth project execution and participate in code reviews.
- Troubleshoot and debug web applications, enhancing performance and resolving technical issues.
- Lead the development of an e-commerce website, overseeing both front-end and back-end functionality.

**Headstarter AI:** *Software Engineer Fellow*

07/2024 – 09/2024

- Created a personal portfolio website as an introductory project, showcasing my development skills and projects
- Developed a Python-based application to automate course selection for course registration.
- Collaborated with peers through weekly virtual hackathons and coding sprints, refining skills in full-stack development

## PROJECTS

**Trace:** [Inventory Management Web App](#), [Demo](#)

- Engineered core functionalities for adding, updating, and deleting items with real-time data synchronization using Next.js, React, and Firebase.
- Designed a sleek, responsive user interface with Material UI, enhancing user experience and interaction.
- Managed version control and collaborative development effectively through Git, ensuring smooth project updates.

**AidAI:** AI Customer Support Chatbot

- Developed a scalable chatbot using Next.js and React, integrating OpenAI API for intelligent responses and deploying on AWS EC2 and Vercel.
- Implemented advanced features, including RAG for knowledge-based responses and LLM orchestration for optimized interactions.
- Enhanced user experience with multi-language support, user authentication, and a feedback mechanism.

**Weather\_Vibes:** Weather, Events & News App

Grambling State University Computer Science & Digital Technology Hackathon

- Collaborated with a team of 5 to develop a multi-functional web app in 6 hours, featuring weather updates, event planning, and news feed using Django, OpenWeatherMap API, and News API.
- Designed a responsive, user-friendly interface using HTML, demonstrating rapid problem-solving and teamwork under pressure.
- Enhanced group collaboration and project management via Git version control and clear communication strategies.

**Hackathon Project:** Easy-Schedule, [Demo](#)

- Automated course selection for semester course registration.
- Implemented functionality to detect and handle course time overlaps, enhancing the user experience.
- Built with Python, Flask, HTML, and CSS.