

Rakin Bhuyan

rakinabhuyan2004@gmail.com | (315) 8303946 | Madison/AL | [LinkedIn: Rakin Bhuyan](#) | [GitHub: RakinAB](#)

TECHNICAL SKILLS

Programming Languages: Python, Java, Javascript, HTML, CSS, C, R

Dev Tools: Eclipse, Visual Studio Code, BlueJ, LeetCode, Replit, Github, Figma, Vite, Netlify, XCode

API's/Libraries: React.js, Tensorflow

CERTIFICATIONS

CS50AI: Introduction to Artificial Intelligence with Python - edX HarvardX University 2024

PH125.1x: Data Science: R Basics - edX HarvardX University 2024

PH125.2x: Data Science: Data Visualization - edX HarvardX University 2024

PH125.3x: Data Science: Probability - edX HarvardX University 2024

CodePath Web 101 Intro to Web Development - CodePath Spring 2024

EDUCATION

University of Alabama at Birmingham

Birmingham, AL

Bachelor of Science, Major in Computer Science, Minor in Information Systems

- **Relevant Courses:**
 - Intro to CS Python, Object-Oriented Programming, Discrete Structures, Algorithms and Data Structures, Automata and Formal Languages, Comp Organization and Assembly Lang
- **GPA:** 3.85
- **Expected Graduation Year:** 2026

EXPERIENCE

NASA Space Apps Hackathon / Duluth, GA

October 2023

- Collaborated with a diverse team of participants to tackle challenges related to space exploration and Earth Science, specifically eclipses and more relevant information about them.
- Developed innovative solutions in a limited timeframe and demonstrated strong problem-solving and critical-thinking skills in a highly competitive environment.

Software Engineering Fellow / Remote

Jul 2024 - Present

- Built 5+ Artificial Intelligence apps and API's using **Next.js**, **Open.ai**, **Pinecone**, and **StripeAPI** using 98% accuracy as seen by 1000 users

PROJECTS

Image Captioning w/ Artificial Intelligence (Collaboration)

[View Project](#)

- Developed a platform harnessing cutting-edge image-to-text AI technology, generating detailed captions from visual data. Initiated with the **SalesForce BLIP model**, enhanced further by integrating an attention transfer model like **Google Vision Transformer**.
- Orchestrated the integration of the AI model into a **Python script using Streamlit**, delving into the complexities of technology integration (Streamlit, AI model) to guarantee flawless functionality.
- Established the backend on **Replit**, later integrating it to **Streamlit** for a more user-friendly frontend. This transition led to a marked increase in positive feedback from over 50 users, affirming its intuitive design and usability

Live Stock Chart (Solo Project)

[View Project](#)

- Developed a web application using **Dash** to visualize live stock prices with Bollinger Bands, moving average, and volume underlay for any ticker Symbol in **Python**.

- Created a user friendly interface with a text input for a custom stock selection which then fetches data using **yfinance** from **Yahoo Finance**
- Designed an **interactive Plotly graph** displaying candlestick, moving average, Bollinger Bands, and volume underlay
- Utilized: **Dash, pandas, Plotly, yfinance, Python, VSCode, GitHub**