Rakin Bhuyan

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TECHNICAL SKILLS

Programming Languages: Python, Java, Javascript, HTML, CSS, C, R, C++
Dev Tools: Eclipse, Visual Studio Code, BlueJ, Replit, Github, Figma, Vite, Netlify, Godaddy, Cloudflare, Firebase, Postman, Firestore, Vercel, Material UI
API's/Libraries: React.js, Tensorflow, Next.js, Pandas, Pytorch, Pygames, OpenAI, Pinecone, Node.js

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, Advanced OOP with C++, Systems Programming, Probability and Statistics
- **GPA:** 3.85
- **Expected Graduation Year: 2026**

EXPERIENCE

Software Engineering Fellow / Remote   **Jul 2024 - Present**
Headstarter AI

- Built and deployed 5 AI projects in 5 weeks using **React JS, Next.js, Firebase, Clerk,** and **Vercel**, following agile methodologies with weekly sprints and incorporated **CI/CD practices for iterative deployment**
- Develop an interactive customer support agent using Next.js, integrated a custom **RAG pipeline** using **OpenAI** and **Pinecone** that responds based on a company's knowledge base
- Collaborated with 3 Fellows to build and deploy a **SaaS product** that generates dynamic flashcards based on any topic using the **Llama 3.1 LLM via the Groq API**, integrated a paywall and custom pricing plans using the **Stripe API**
- Implemented a web scraper that automatically extracts data from Rate my Professor and upsert to a Pinecone index, integrated with a **RAG pipeline** using **LangChain** and **OpenAI GPT-4o** to get up-to-date and relevant answers to user queries

PROJECTS

Live Stock Chart (Solo Project)   [View Project](#)

- Developed a web application using **Dash** to **visualize live stock price**s with Bollinger Bonds, 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

Rate My Professor RAG Application w/ Artificial Intelligence (Solo Project)   [View Project](#)

- Implemented a web scraper that automatically extracts data from Rate my Professor and upsert to a Pinecone index, integrated with a **RAG pipeline** using **LangChain** and **OpenAI GPT-4o** to get up-to-date and relevant answers to user queries
- Developed an interactive customer support agent using Next.js, integrated a custom **RAG pipeline** using **OpenAI** and **Pinecone** that responds based on a company's knowledge base
- Created the UI and Design of the web application using **Material UI** in order to make the project appealing to the eye and easy to take in.