

# Rakin Bhuyan

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## TECHNICAL SKILLS

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**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, Linux, Unix

**API's/Libraries:** React.js, Tensorflow, Next.js, Pandas, Pytorch, Pygames, OpenAI, Pinecone, Node.js

## EDUCATION

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**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

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**NASA Space Apps Hackathon**

October 2023

Duluth, GA, USA

- 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 - Sep 2024

*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

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**Live Stock Chart** (Solo Project)

[View Project](#)

- Developed a web application using **Dash** to **visualize live stock prices** 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.