

# Ethan Pradhan

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🐙 [github.com/redinkforest](https://github.com/redinkforest)

## Education

### University of Houston

Expected May 2025

*B.S. in Computer Science, Minor in Mathematics*

*Houston, Texas*

- **Relevant Coursework:** Programming and Data Structure, Computer Org & Architecture, Statistics, Discrete Mathematics, Algorithms & Data Structures, Intro to Automata & Computability, Fundamentals of OS, Intro to Comp Networks

## Experience

### Rainfall.one

Jun 2024 – Sep 2024

*Intern*

*Remote*

- Worked in a fast-paced AI startup creating data visualization software, reports for stakeholders, and tools for quality assurance using Firebase and Python
- Designed and implemented comprehensive data visualization tools, empowering stakeholders with insights derived from 1M+ data points
- Executed a structured testing protocol for AI models, reviewing 50 users' data; recorded consistent instances of model error, leading to further investigation by engineers

### Code[Coogs]

Feb 2024 – May 2024

*Full-Stack Software Developer*

*Houston, Texas*

- Created a comprehensive project management software for Agile development using Sveltekit, PostgreSQL, and Supabase, a Firebase alternative
- Programmed responsive web pages and critical back-end systems such as login authentication using Supabase and Google authentication API
- Received positive feedback from industry professionals on applications functionality, design, and efficient project management capabilities

### Cullen College of Engineering, University of Houston

Jan 2024 – May 2024

*Student Research Assistant*

*Houston, Texas*

- Researched and developed physics labs using the Unity game engine in C# to demonstrate the effects of forces on bridges and trusses
- Wrote documentation and guides for students and university officials to illustrate physics principles and its applications

## Technical Skills

**Languages:** Python, Java, Go, C++, Javascript, R, Typescript

**Technologies:** React.js, Django, Flask, FastAPI, Bootstrap, Node.js, Git, Github, MATLAB, Wireshark, Figma, Arduino, Linux, Excel, MATLAB, Express.js, Supabase, Sveltekit, Pandas, Numpy, Matplotlib, Firebase

**Concepts:** Operating Systems, Computer Networks/Network Protocols, Artificial Intelligence, Machine Learning, Neural Networks, API, Databases, Agile Methodology, Full Stack Development, NoSQL, SQL, Blockchain, Cloud Computing

## Projects

### Lighthouse Bistro | React.js

Jan. - Aug. 2023

- Created and designed a responsive website for a restaurant for advertisement

### Python Webscraper | Python, BeautifulSoup, Tkinter

May 2023

- Programmed a toy web scraper to bring forward key information from a website for a given user input

## Extracurricular Activities

### Blockchain Houston

Aug 2024 – Ongoing

*Vice President*

*Houston, Texas*

### CodeCoogs Organization

Jan 2024 – Ongoing

*Member*

*Houston, Texas*

### Authors & Artists

Jan 2023 – Ongoing

*Secretary & Treasurer*

*Houston, Texas*