Ethan Pradhan

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Education

University of Houston   Expected May 2025
B.S. in Computer Science, Minor in Mathematics   *Houston, Texas*
- **Relevant Coursework:** Computer Org & Architecture, Statistics, Discrete Mathematics, Algorithms & Data Structures, Fundamentals of OS, Intro to Comp Networks, Database Systems, Fundamentals of AI

Experience

Rainfall   Jun 2024 – Sep 2024
Intern   *Remote*
- Worked in a fast-paced remote AI startup creating data visualizations, reports for stakeholders, and tools for quality assurance using Firebase and Python
- Engineered comprehensive data visualizations using Python, Pandas, Matplotlib, and Seaborn; empowering stakeholders with insights derived from 1M+ data points
- Designed a new API endpoint using FastAPI, optimizing data retrieval processes for 1,455 users from ChromaDB; increased data access speed by 40%

Code[Coogs]   Feb 2024 – May 2024
Full-Stack Software Developer   *Houston, Texas*
- Developed a comprehensive project management software for Agile development using Sveltekit, PostgreSQL, and SupaBase, a Firebase alternative
- Programmed and refined a robust authentication system utilizing Supabase and Google API for security; achieved a 30% reduction in unauthorized access attempts, ensuring enhanced data protection for end-users.
- Engineered a suite of responsive web pages that optimized mobile user experience while integrating critical back-end authentication systems

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
- Documented the physics principles of each simulation and guides on how to use the simulations

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, FastAPI, MySQL*   Jan. - Aug. 2023
- Engineer and designed a responsive one-page website for a restaurant, including an interactive map created using TomTom's developer API
- Programmed an API to manage reservations using FastAPI and a local MySQL database

Python Webscraper | *Python, Beautiful Soup, Tkinter*   May 2023
- Programmed a toy web scraper to bring forward key information from a website for a given user input and created a modern GUI using CustomTkinter

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*