

# Sathya Padmanabhan

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## EDUCATION

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### Rice University

*BS in Computer Science, Minor in Business and Financial Modeling*

Houston, TX

*Expected May 2027*

## EXPERIENCE

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### Full Stack Engineer

*HytesIT*

June 2024 – August 2024

*Phoenix, AZ*

- Developed an Uber for nurses using Flutter, MongoDB, Node.JS, Express, and Redux
- Contributed 10K+ lines of code to an established codebase via Git
- Implemented Google distance and maps API for live location and time support

### Computational Neuroscience Researcher

*ASDRP*

Dec 2021 – July 2023

*Fremont, CA*

- Explored methods to predict COVID outbreaks among vaccinated sub-populations via neural nets
- Developed an interactive world map to visualize COVID data
- Created an ML classification system for genes in Python
- Wrote a 25-page paper, under review at the Springer Journal, and gave multiple presentations virtually
- Presented to the World Conference on Human Brain Mapping (OHBM)

## PROJECTS

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### Servery | *Python, Flask, React Native, MongoDB, Zustand, Docker*

May 2024 – Present

- Developed a full-stack recipe application with Flask serving a REST API with React Native as the frontend
- Created a MongoDB database with over 30K+ entries and connected it to a digital server
- Created an ML algorithm to suggest recipes based on a user's previously liked recipes
- Used Zustand queries to frame the backend with the frontend

### Horizon | *ReactJS, Next.JS, Appwrite, Sentry, Plaid API, Dwolla, Zod*

May 2024

- Developed a secure banking application with ReactJS and Appwrite
- Integrated PlaidAPI and Dwolla to ensure secure transactions and fetch transaction history from banks
- Secured the application with Sentry to ensure instant feedback and iteration on errors
- Separated Server side and Client side actions, streamlined through Next.JS

### StockFin | *Python, Flask, ReactJS, Firebase*

Jan 2024 - May 2024

- Developed a full-stack web application React as the frontend and Firebase as the backend
- Implemented MarketStack's API to query real time market data
- Gained around 1k+ users within the first month and \$3K in revenue
- Used OpenAI's API to serve as a chatbot for financial assistance

### CardioCrew | *React Native, Node.JS, Express, MongoDB*

Sep 2023 – Apr 2024

- Developed a full stack application to keep heart patients at the Texas Heart Institute physically active
- Presented product to the Texas Heart Institute and gained over 1k+ users
- Integrated app with smart fitness devices to sync health data to patients
- Collaborated with developers and designers in weekly Sprints and SCRUM meetings

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, HTML/CSS, R

**Frameworks:** React, TailwindCSS, Next.JS, Node.js, Flask, Zustand, Redux

**Developer Tools:** Git, Docker, Sentry, Appwrite, Zod, MongoDB Compass, VS Code, PyCharm, Gephi, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, PyTorch, TensorFlow, Plaid API, OpenAI API