Sathya Padmanabhan

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EDUCATION

Rice University — Houston, TX
BS in Computer Science, Minor in Business and Financial Modeling — *Expected May 2027*
<u>Relevant Coursework:</u> Data Structures, Algorithms, Design, Computer Organization, Systems

EXPERIENCE

Software Engineer — Dec. 2024 – Present
CrowdVolt (YC W24) — *New York, NY*
- Created an event management system on the primary POS tool for ticket resell using Python, NextJS, & Postgres
- Queried database for active tickets in carts to prevent against ticket duplication
- Developed unit tests to guard against production issues and deployment errors

Full Stack Engineer — June 2024 – Aug 2024
HytesIT — *Phoenix, AZ*
- Developed an Uber for nurses using Flutter, MongoDB, Node.JS, Express, and Redux
- Contributed 10K+ lines of of code to an established codebase via Git
- Designed the UI/UX for the nursing pages and helped build the frontend

PROJECTS

QuikFlip | *Next.JS, SupaBase, Python, Flask, Docker* — Dec. 2024 – Present
- Co-founded a tool that allows any business to accept crypto payments at their stores. Received a $100k grant to pursue the project. Three businesses are currently using QuikFlip today

Latextia | *Python, Flask, React, MongoDB, Next.JS, Docker* — Apr. 2024
- Built a AI tool to translate handwritten notes into formatted LaTex and Markdown papers. Currently supporting 10k+ users

Bunkmate | *JavaScript, React, Next.JS, SupaBase* — Aug. 2024 – Present
- Developing a platform to help match Rice students who need housing with sub-letters in the Houston area. Application is complete with caching, CRUD functionality for listings, and live updates

AStar | *ReactJS, Next.JS, Python, Flask, Sentry, Zod* | *Personal Project* — Dec. 2024
- Developed software for Rice University to help facilitate the annual Astar treasure hunt for computer science students.

StockFin | *Python, Flask, ReactJS, Firebase, MarketStack* | *Web App* — Jan. 2024 - May 2024
- Developed an AI financial assistant that provides real-time market insight to help beginners get into investing. Gained 1k users and generated $3k in revenue.

FEAT - Automated Test Case Generator | *Python, Java* — Oct. 2023
- Created an automated test case generator in Java to test programs written in Python. Makes use of recursive Backus-Naur based grammar parsing, hitting set theory, and process management

ACTIVITES & AWARDS

RiceApps | *Tech Lead of Rice University's app development initiative* — Aug 2023 - Present
HackHarvard 2024 Winner | *Won 2nd Place Overall at Harvard's hackathon* — Oct. 2024
MHacks 2024 Winner | *Won the accessibility track at the UMich hackathon 2024* — Sep. 2024
Trustee Distinguished Scholarship | *$100k merit scholarship awarded to <1% of admitted Rice students*

TECHNICAL SKILLS

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