Rayan Fernandes
React Full Stack Developer

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Hard Skill

- Designing UI mockups
- Analysis of the best approach
- Proficient in frameworks like react
- Discovering Low cost alternatives

Soft Skill

- Observation
- Decision making
- Communication
- Multi-tasking

Education

Canara Engineering College
Bachelor's Degree in Electronics and Communications Engineering
Completed in 2020

Padua PU College, Nantoor
Pre University
Completed in 2016

Navachetana English Medium School
SSLC
Completed in 2014

Hobbies & Interests

- Playing Guitar & Keyboard
- Reading Tech Articles
- Badminton
- Creating Telegram bots
- 3D Modeling

About Me

Curious about building applications and bringing ideas to life.

Having 1.5+ years of IT experience in developing Web applications using React and Nodejs Technologies.

Having good knowledge of React.
Experience in developing web-based applications using React, Redux Toolkit CSS design systems like bootstrap, Web Services with .NET
Expertise in Different servers like Express and Flask
Expertise in using IDEs like VS code, and Visual studio.
Experienced in Software version control tools like Github and Bit Bucket.

Technical Expertise:
Technologies: React.js, Nodejs, Python, .NET
Web Services: Express, ASP.NET, Flask
Database: MYSQL, MongoDB
IDE & Tools: VSCODE, Visual studio

Professional Experience

Systems Engineer | React Developer
2021 May – Present

Project: Runway Restriction editor
Technologies used: React, Node.js, Express, Git, Web Services, JavaScript, redux-toolkit, RTK-query, react-tables
Tools: VScode, Bitbucket, Rally, Jenkins
Responsibilities:
- Involved in designing and developing frontend UI from scratch.
- Developed CRUD features for the application.
- Added User Authentication and roles.
- Implemented search and filter on columns.
- Created multiple tables to compare the rows and columns.
- Integrated the app to work with paginated data.
- Manual Testing of UI defects and providing fixes and workarounds
- Unit testing using react testing library.

Self Projects

Project: DemuxxBot
Description: Telegram bot for audio source separation, extract vocals and instruments using spleeter library, built using python.
Tech: Python, Linux, pyrogram library, Firebase
Tools: Vscode, Git

Project: Internet Monitoring Bot
Description: A bot that keeps an eye out for the internet vitals and sends alerts on Telegram.
Tech: Python, Linux
Tools: Raspberry Pi

Achievements

- **1st place** in Best Designed RC Car conducted by St.Joseph Engineering College during TIARA 2017
- **1st place** in Robo Soccer conducted by IEEE SB CEC during International Arduino day 2017
- **2nd place** in Project Expo(Smart IOT home)conducted IEEE SB CEC during International Arduino day 2017
- **NPTEL Certification** in Embedded System Design with ARM
- **3rd place** in the Line Follower competition conducted by BITS Pilani, Goa Campus 2018
- **Finalists of Anveshan**, a national event organized by Analog Devices in June 2019 in Bangalore

College Projects

- **Dicto-Writer** - A Speech to Text Plotter aimed to assist differently-abled to write exams. (Final Year Project)

- **Self-Regulating Intelligence Platform for Greenhouse Farmers** (Rs.20,000 funded by Analog Devices)

- **Automatic Vehicle logging and Admitting system** for residential/factory using Number plate recognition(Raspberry Pi)

- **Virtual Tele-Presence Robot**

Professional Experience

Nexus.io | Full Stack Developer
2020 - 2021
Project: Nexus Blockchain Explorer V2
Description: A Web application to explore the nexus blockchain enables to search for blocks, transactions, and NXS addresses, and displays all of the blockchain vitals.
Technologies used: Next.js, React, Python, react-query, react-table, SASS
Tools: Vscode, Figma, Trello, Github Projects
Responsibilities:

- Created Figma design for the new explorer from scratch, trying a few iterations on the design and taking inspiration from different explorers.
- Worked on Apexcharts for displaying chart data.
- Wrote a python flask backend as cache provider to reduce direct API hits to the node, Thus, Improving page performance using pagination, caching, and incremental static generation for dynamic pages.
- Created React components using sass stylesheets
- Route API calls through an HTTPS proxy middleware to provide HTTPS support
- Used AppContext with a custom hook to keep the user settings persistent in localStorage
- Coded a logic to Dynamically fetch new blocks for the recent blocks/transactions view and render them with sliding animation.
- Made use of Recursive logic for InfoComponent to display the nested values in a JSON Object.
- Wrote a custom hook to switch between testnet and mainnet servers
- Worked on manual testing and other defect fixings

Project: Nexus Alerts Bot (Telegram)
Description: Shows Whale transactions on the nexus blockchain
Technologies used: Python, Linux
Tools: Vscode, pyrogram lib
Responsibilities:

- Put together a bot with a daemon thread that processes new blocks on the blockchain as they are created, parses the block for the amount, and sends a notification message to the channel.
- Polling logic used to scan for the latest block
- Account for lost blocks between polling intervals.
- Parser logic to scan for the amount, txid, from, to, etc.