



# Rayan Fernandes

## React Full Stack Developer

✉ rayanfernandes9@gmail.com

☎ +91 87222 77308

📍 Mangalore, Karnataka, India

🌐 rayanfer32.netlify.com

## Hard Skills

- Designing UI mockups
- Proficient in React
- Discovering Low cost alternatives
- Complete end to end application development

## Soft Skills

- Observation
- Decision making
- Communication
- Multi-tasking
- Critical Thinking

## Education

Canara Engineering College

**Bachelor's Degree in Electronics and Communications Engineering**  
2016 – 2020

Padua PU College, Nantoor

**Pre University**  
2014 – 2016

Navachetana English Medium School

**SSLC**  
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 Industry experience in developing Web applications using React and Node.js Technologies.

- Having good knowledge of UI Frameworks.
- 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 and Development 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

**Description:** Global Web application that allows ATCs to plan routes for aircraft based on the Restrictions active on the runways.

**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 on 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.