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# Rony Joseph

Software Engineer

 ronyjoseph2412  
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## EDUCATION

**B.Tech, Computer Science Engineering** Dec 2020 — Jul 2024  
International Institute of Information Technology Naya Raipur GPA: 8.92/10.00

## EXPERIENCE

**Frontend Engineer (Intern)** Feb 2024 — Aug 2024  
Zscaler Bengaluru, India

- Migrated key components from Backbone.js to **React.js** for the Zscaler Internet Access Admin Panel, resulting in a **30%** reduction in code redundancy and a significant decrease in bugs.
- Reworked on the **design system** development, leading to a 25% improvement in overall product flow and user experience.

**Frontend Engineer (Intern)** Feb 2023 — Nov 2023  
KoinX Remote

- Developed client-side application using **React.js** and **Material-UI** that enhance the overall user experience and integration of multiple REST APIs for unveiling new features contributing to a **40%** growth in application engagement.
- Managed resolutions for **100+** issues using **Sentry** for enhancing system performance and stability.
- Utilized **Redux-Toolkit** for state management and **Next.js** for server-side rendering, and refactored code during the transition from React and achieved a **50%** improvement in website performance through optimized code splitting.

**Full Stack Engineer (Intern)** Jul 2022 — Nov 2022  
Indian Institute of Science, Bengaluru Remote

- Revamped Django codebase using **Django Rest Framework**, optimizing API serving and enhancing UI responsiveness with **React** and **Tailwind CSS**, resulting in **30%** faster rendering and improved user experience.
- Implemented a chatbot using the **Rasa** Framework, which led to increase in user engagement within the application when tested with a group of **100+** users.

## PROJECTS

**MetaWallet: Digital Asset Wallet** JavaScript, React.js, Express.js, Google Cloud  
Deployed cutting-edge post-quantum cryptography and zero-knowledge proof protocols within the AI bot framework; increased user trust while maintaining a user-friendly interface.

**Stock Info - NSE Stock-Market Tracker** Django, Python  
Engineered a user-friendly stock monitoring web app to monitor NSE stocks using Django, Tailwind CSS, Beautiful Soup, and Chart.js for data visualization.

**Super Spreader Attack Detection And Mitigation** Python, P4, SDN  
Implemented a Super Spreader Attack and Mitigation strategy that established over 500 simultaneous connections with diverse hosts, successfully demonstrating vulnerabilities and enhancing network resilience against disruptions to legitimate traffic.

**IoT Based: Air Quality Monitoring System** C, Internet of Things, Arduino, Django  
An IoT prototype using Arduino UNO, gas sensors (MQ-135, MQ-7), PM2.5 module for AQI calculation, and ESP-8266 for ThingSpeak Cloud communication and Django-based monitoring dashboard.

## TECHNICAL SKILLS

**Languages** Javascript, Python, Java, C, P4  
**Coursework** Computer Networks, Database Management Systems, Cryptography, Internet of Things  
**Frameworks** React, React Native, Next.js, Django, Node.js

## PATENTS & PUBLICATIONS

- Smart Electricity Metering System, Indian Patent 425577 2023
- Plansformer Tool: Demonstrating Generation of Symbolic Plans using Transformers, IJCAI 2023
- Survey of Stock Market Price Prediction Trends using Machine Learning Techniques, ICAIA 2023

## AWARDS & HONORS

- Winner** Industry Academia Meet 2023
- Finalist** Smart India Hackathon 2022
- Winner** IIITNR E-Summit Event 2022, 2023