

# Anubhab Patnaik

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## EDUCATION

### Silicon Institute of Technology


Bachelor of Technology in Computer Science and Engineering; CGPA:8.7/10.0

Bhubaneswar, India

July 2019 — June 2023

## EXPERIENCE

### RadiusAI

Software Engineer - 

Bengaluru, IN

Jan 2024 - Present

- Built a multi-threaded, asynchronous health monitoring service using Rust, and Kafka that handles 10,000+ scraping requests every 10 secs. Optimized and ported the alert mod from Python to Rust to improve performance
- Automated fault tolerant, consistent DB write operations by different teams using lambda functions and Prefect.
- Built a native GUI app in Rust; to highlight unknown objects present during checkout in LCD counter-top POS.
- Ported the existing python shopassist cart simulator codebase to Rust. Updated the code to run asynchronous operations in parallel threads to improve performance and reduce bottleneck issues by more than 50%.

### StackIt


Founding Engineer

Bengaluru, IN

June 2023 - Dec 2023

- Integrated Chargebee, Hubspot, and Google Ads. Built an advanced custom scheduling and logging service using React, Node, and Python to store user data periodically and enhance the performance of the AI engine.
- Created the Data-Preview component using React enhancing data viz. capabilities, which led to a 30% reduction in import errors. Implemented robust filters, joins, and v-lookups, increasing data processing efficiency.
- Built sustainable RAG pipelines using LangChain and LlamaIndex to convert text to SQL & no SQL queries, reducing more than 50% user churn, and leading to a 20% increase in user retention.

### Squbix Digital

Software Developer - 

Bhubaneswar, IN

June 2022 - Dec 2022

- Launched the back-end infrastructure using Nodejs. Configured optional parameters to switch between different blockchains. Ported the JS SDK to Typescript. Developed a Chrome extension for wallet transactions. Refactored mobile applications with better UI, implemented offline storage, push notifications, and created an ERP app
- Modified the existing DID pallet using Rust & Substrate to store ID information in the blockchain with additional unit tests. Collaborated on the wallet transfer PWA to cater to the need of existing users on the older blockchain.

## TECHNICAL SKILLS

**Programming Languages** C/C++, Python, JavaScript/TypeScript, Rust, || Go, PHP, SQL

**Libraries/ Frameworks** MERN, React Native, || AI/ML, Django, Flask, Langchain, Llamaindex, FastAPI

**Developer Tools & Platforms** Git, Bash, GitHub, Docker, AWS, GCP, Firebase, Lighthouse, Analytics, Kafka, Kubernetes

## PROJECTS

### DOUGH -

Rust, Bash

A CLI tool to present slides/ images written in markdown in the terminal with custom syntax and code highlighting.

### QTREE -

JavaScript, Canvas, HTML

An image compression & decompression algorithm using Quadrees by recursively subdividing it into four quadrants.

### BEE -

Pandas, Sklearn, NLP, LP, BitTorrent

A custom BitTorrent client to download movies with an item-based collaborative **movie recommendation system** based on user ratings and the no. of ratings & a **movie rating prediction system** to classify reviews with an 85% accuracy.

### ZUZU -

Nodejs, Django, React, SQLite3, AWS-EC2

A static site generator with js-binding, RSS & PDF generators, a search bar & modular theme setting.

### RESOC -

React, Bootstrap, Firebase, Cloud Firestore

A free and open social platform for accessing free academic resources with task management, a chat section, and an open contributions page with a growing user base of 2000 & more than 4000 reads and 200 writes

### WEBCCHAT -

GunJS, Svelte, Rust, Tokio, Substrate, React, Firebase, gh-actions

A decentralized chat app, written in Rust & Svelte, enabling real-time messaging for 10,000 concurrent users.

## VOLUNTEER EXPERIENCE

Established and led cbtrl, a FOSS platform; increased user base, and facilitated 11+ innovative projects. 2022

Co-founder & Joint Secretary, SWITCH, the first official coding club of the college. 2021

Chairperson - 2022-23 of the prestigious IEEE Students' Chapter, Silicon Institute of Technology.