

Anubhab Patnaik

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EDUCATION

New York University

Master of Science in Computer Engineering

New York City, US

Sept 2024 — Expected December 2025

Silicon Institute of Technology

Bachelor of Technology in Computer Science & Engineering

Bhubaneswar, IN

July 2019 — May 2023

EXPERIENCE

DatingAI

(Remote), Bengaluru, IN

Software Engineer

July 2024 — Aug 2024

- Led the revamp of the infrastructure in Node.js and Next.js, coordinating efforts across dev and product teams to reduce network load and improve API throttling by 15%, limiting API exhaustion and improving the performance of the engine.
- Conducted surveys, market research, resolved customer issues, and built the Telegram and Discord bots that mimicked the entire application enabling multi-platform access and increasing the total active users by 50%.

RadiusAI

Bengaluru, IN

Software Engineer

Jan 2024 — July 2024

- Built a multi-threaded, asynchronous health monitoring service using Rust and Kafka to handle 5000 scraping requests every 10 seconds, optimizing and porting the alert module from Python to Rust to improve performance.
- Automated fault-tolerant, consistent DB write operations by different teams using lambda functions and Prefect.
- Developed a native GUI app in Rust to highlight unknown objects present during checkout in LCD counter-top POS.
- Optimized ShopAssist cart simulator by rewriting it in Rust, writing code to run asynchronous operations in parallel threads, achieving a 10x performance boost and reducing checkout processing time, enhancing customer experience.
- Created a data analytics dashboard app using Gradio to display annotations, reducing inaccuracies by over 30%.

StackIt (Superjoin)

Bengaluru, IN

Founding Engineer

June 2023 — Dec 2023

- Integrated Chargebee, Hubspot, and Google Ads, increasing user acquisition by 4x. Engineered an advanced custom scheduler and logger in Node.js and Python to store user data periodically, enhancing the performance of the AI engine.
- Developed an interactive Data-Preview component in React to enhance Data Visualization & reducing import errors by 15%. Worked on building robust filters, joins, and v-lookups, increasing data processing efficiency.
- Engineered sustainable RAG pipelines using Python, LangChain, and LlamaIndex to convert text to SQL and NoSQL queries, reducing user churn by more than 50% and increasing user retention.

Squbix Digital

Bhubaneswar, IN

Software Developer

June 2022 — Dec 2022

- Developed the backend in Node.js, migrated the JS SDK to TS, and resolved over 60% of user-centric issues. Implemented offline storage, push notifications, and optimized the ID pallet in Rust & Substrate on Polkadot, cutting errors below 30%

TECHNICAL SKILLS

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

Libraries/ Frameworks MERN, Next, React Native, || Numpy, Pandas, SkLearn, Django, Flask, Langchain, Llamaindex, FastAPI

Developer Tools, Platforms & Databases Docker, AWS, GCP, Firebase, Kafka, Kubernetes, Redis, MongoDB, PostgreSQL

PROJECTS

LIND - Open Source Contribution -

Rust, WASM

A single-process sandbox to safely isolate & execute programs, and control resource usage to avoid system failures.

Yatch -

C++

A five-stage, hazard & memory-safe pipelined 32-bit RISC-V machine code interpreter with a built-in RISC-V bin **decoder**.

DOUGH -

Rust, Bash

A CLI tool to present markdown files as slides/ presentation in the terminal, with custom syntax and code highlighting.

BEE -

Python, 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 a 95% accuracy.

RESOC -

React, Firebase

A college resource-sharing platform with taskboard & community chat, achieving 200+ active users within the first 3 months.

WEBCCHAT -

GunJS, Svelte, Rust, Firebase

A decentralized chat app enabling low-latency, secure, and ephemeral messaging service.

VOLUNTEER EXPERIENCE

Member, Google Developer Student club (GDSC), New York University, Tandon. 2024—2025

Member Secure Systems Lab, New York University, SSL, NYU Tandon. 2024—2025

Chairperson (2022—23) & Joint secretary (2021—2022) of the IEEE Students' Chapter, Silicon Institute of Technology.