**Anubhab Patnaik** July 11, 2025

anubhabr50@gmail.com | linkedin.com/in/anubhabpatnaik | github.com/anubhavpgit | instagram.com/anubhavclicks

## EDUCATION

**New York University** 

New York, US

Master of Science in Computer Engineering

Sept 2024 — Expected Dec 2025

Silicon Institute of Technology

Bhubaneswar, IN July 2019 — May 2023

Bachelor of Technology in Computer Science & Engineering

EXPERIENCE

h011yw00d

AI Research Engineer Intern

San Francisco, US

May 2025 — July 2025

• Working on decoupling the video generative AI engine from Scrypted's AVB stack, implementing custom distributed computing, building deploying and maintaining the production app systems.

• Built a social-media app as a Worldcoin mini app in Next.Js. Won the world builder residency in Edge Esmeralda.

• Implemented automated video generation Job queue management systems using Redis. Tracked User engagement and performance in Postgres, and deployed the app in Vercel.

**RadiusAI** Seattle, US

Software Engineer

Jan 2024 — Aug 2024

- Designed a Rust/Kafka health monitoring service handling 5000 requests/10s with improved Python-to-Rust perf.
- Led Rust optimization of cart simulator with parallel processing and faster checkouts.
- Automated DB operations using AWS Lambda/Prefect with 99% data consistency across distributed systems.
- Developed a native GUI application in Rust that highlights unknown objects during checkout in LCD counter-top POS systems, improving store security.
- Created a real-time analytics dashboard using Gradio to visualize annotation data, reducing labeling inaccuracies by more than 30% and improving model training.

StackIt (Superjoin)

Bengaluru, IN

*June 2023 — Dec 2023* 

- Founding Engineer • Architected and implemented a resilient microservices ecosystem using Docker, Kubernetes, and GitHub Actions,
  - Engineered an interactive Data-Preview component in React with advanced filtering, joins, and lookup capabilities, improving data visualization by 40% and reducing import errors.

ensuring 99.9% uptime while integrating Chargebee, Hubspot, and Google Ads to increase user acquisition.

 Structured sustainable RAG pipelines using Python, LangChain, and LlamaIndex for natural language to SQL/NoSQL conversion, reducing user churn and improving query accuracy to 90%.

## **TECHNICAL SKILLS**

Systems Engineering Rust, C/C++ (Systems Programming), Parallel/Distributed Computing Web & Cloud Technologies TypeScript/Node.js, React/Next.js, AWS, Docker, Kubernetes, Kafka, MongoDB, PostgreSQL AI/ML Integration RAG Pipelines, LangChain, LlamaIndex, Vector Embeddings, Python (Data Processing)

## **PROJECTS**

Docking Compilers - &

C++, Rust, RISC-V

GunJS, Svelte, Rust, Firebase

Ferry - A high-performant, optimised minimal C lang compiler for RISC-V written in Rust, & Yatch - a five-stage, hazard & memory-safe, 32-bit pipelined machine code interpreter for RISC-V with a built-in binary **decoder**. → **Demo** 

LIND - Research / Open Source Contribution - 🔗

Rust, WASM

A single-process sandbox to securely isolate program execution with fine-grained resource control to prevent system failures DOUGH - & Rust, Bash

A high-performance CLI tool for rendering markdown presentations in the terminal with custom syntax highlighting  $\rightarrow$  **Demo** BEE - & Python, BitTorrent

A BitTorrent client with an item-based collaborative recommendation system and a rating prediction system with 95% acc

RESOC - め React, Firebase A college resource-sharing platform with taskboard & community chat, 200+ active users within the first 3 months. Live°

A decentralized chat app enabling low-latency, secure, and ephemeral messaging with more than 20k active users. Live°

## VOLUNTEER EXPERIENCE

Fireside - 8

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.