Anubhab Patnaik

anubhabr50@gmail.com | linkedin.com/in/anubhabpatnaik | github.com/fuzzymf | anubhavp.dev/mementos

February 27, 2025

EDUCATION

New York University   New York City, US
Master of Science in Computer Engineering   *Sept 2024 — Expected December 2025*

Silicon Institute of Technology   Bhubaneswar, IN
Bachelor of Technology in Computer Science & Engineering   *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 - Research / 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 32-bit pipelined RISC-V machine code interpreter with a built-in bin **decoder**. → **Demo**

DOUGH - 🔗   *Rust, Bash*
A CLI tool to present markdown files in the terminal, with custom syntax and code highlighting. → **Demo**

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, 200+ active users within the first 3 months. **Live°**

WEBCHAT - 🔗   *GunJS, Svelte, Rust, Firebase*
A decentralized chat app enabling low-latency, secure, and ephemeral messaging service. **Live°**

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.