

EDUCATION

New York University <i>Master of Science in Computer Engineering</i>	New York, US Sept 2024 – Dec 2025
Silicon Institute of Technology <i>Bachelor of Technology in Computer Science & Engineering</i>	Bhubaneswar, IN July 2019 – May 2023






EXPERIENCE

Authentic <i>Founding Engineer</i> <ul style="list-style-type: none">Architected core app features (profile DAG, ephemeral content) with SWR+MMKV caching and distributed locks, cutting API latency and ensuring secure encrypted sharing.Built cross-platform mobile app (Capacitor → React Native) with Next.js, NeonDB, Prisma; deployed via Vercel/Capgo with improved performance and UX across iOS/Android.	Seoul, SK New York, US Aug 2025 – Present
h011yw00d <i>AI Research Engineer Intern</i> <ul style="list-style-type: none">Decoupled video generative AI engine from AVB stack; designed distributed computing layer for production-scale deployment.Engineered full-stack video platform (Next.js, Supabase) with Redis job queue handling 900+ concurrent jobs, reducing DB writes 70% and achieving 3× faster load times.Deployed 40+ API microservices with PostgreSQL/Redis infra (99.9% uptime); implemented rate limiting, distributed locks, circuit breakers, and monitoring services.	San Francisco, US May 2025 – Aug 2025
RadiusAI <i>Software Engineer</i> <ul style="list-style-type: none">Designed Rust/Kafka monitoring service processing 5K req/10s with 30% lower latency than Python baseline.Led Rust optimization of cart simulator with parallelism, enabling 2× faster checkouts across deployments.Automated DB ops via AWS Lambda/Prefect, maintaining 99%+ data consistency across distributed systems.Built Rust-native POS GUI to detect anomalies; developed Gradio dashboard reducing annotation errors 30% and improving ML training accuracy.	Seattle, US Bengaluru, IN Jan 2024 – Aug 2024
StackIt (Superjoin) <i>Founding Engineer</i> <ul style="list-style-type: none">Architected and implemented a resilient microservices ecosystem using Docker, Kubernetes, and GitHub Actions, ensuring 99.9% uptime while integrating Chargebee, Hubspot, and Google Ads to increase user acquisition.Engineered an interactive Data-Preview component in React with advanced filtering, joins, and lookup capabilities, improving data visualization by 40% and reducing import errors.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%.	Bengaluru, IN June 2023 – Dec 2023

TECHNICAL SKILLS

Languages	Rust, Python, C++, TypeScript, SQL/NoSQL
Frameworks/Infra	React, Next.js, Prisma, Supabase, AWS, Kubernetes, Docker, Redis, Kafka
AI/ML	LangChain, LlamaIndex, RAG pipelines, Vector Embeddings

PROJECTS

Docking Compilers - 	C++, Rust, RISC-V
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 → Demo	
RESOC - 	React, Firebase
A college resource-sharing platform with taskboard & community chat, 200+ active users within the first 3 months. Live°	
Fireside - 	GunJS, Svelte, Rust, Firebase
A decentralised chat app enabling low-latency, secure, and ephemeral messaging with more than <u>20k active users</u> . Live°	

VOLUNTEER EXPERIENCE

Member, Google Developer Student Club (NYU Tandon), 2024–2025
Member, Secure Systems Lab (NYU Tandon), 2024–2025
Chairperson (2022–23) & Joint Secretary (2021–22), IEEE Students’ Chapter, SIT