

EDUCATION

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

EXPERIENCE

DatingAI <i>Software Engineer</i>	Bengaluru, IN Aug 2024 — Sept 2024
<ul style="list-style-type: none">Led infrastructure modernization using Node.js and Next.js, improving API throttling by 15%, reducing service outages by 60%, and enhancing overall engine reliability through cross-team coordination.Designed and developed multi-platform integration strategy with Telegram and Discord bots, expanding user reach and increasing total active users by 50% while maintaining consistent user experience.	
RadiusAI <i>Software Engineer</i>	Bengaluru, IN Jan 2024 — Aug 2024
<ul style="list-style-type: none">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 for 10x speed boost 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 30% and improving model training.	
StackIt (Superjoin) <i>Founding Engineer</i>	Bengaluru, IN June 2023 — Dec 2023
<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 by 4x.Engineered an interactive Data-Preview component in React with advanced filtering, joins, and lookup capabilities, improving data visualization by 40% and reducing import errors by 15%.Structured sustainable RAG pipelines using Python, LangChain, and LlamaIndex for natural language to SQL/NoSQL conversion, reducing user churn by over 50% and improving query accuracy by 35%.	
Squbix Digital <i>Software Developer (Blockchain developer)</i>	Bhubaneswar, IN June 2022 — Dec 2022
<ul style="list-style-type: none">Optimized the DID pallet in Rust & Substrate on Polkadot, implementing efficient on-chain storage patterns that reduced error rates by 30% while migrating the JS SDK to TypeScript to improve type safety.	

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
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	
BEE -	Python, BitTorrent
A BitTorrent client with an item-based collaborative recommendation system and a rating prediction system with 95% acc	
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 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 <u>IEEE Students' Chapter</u> , Silicon Institute of Technology.	