

EDUCATION

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

EXPERIENCE

<b>DatingAI</b> Software Engineer	Bengaluru, IN Aug 2024 — Sept 2024
<ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>	
<b>RadiusAI</b> Software Engineer	Bengaluru, IN Jan 2024 — Aug 2024
<ul style="list-style-type: none"><li>Designed a Rust/Kafka health monitoring service handling 5000 requests/10s with improved Python-to-Rust perf.</li><li>Led Rust optimization of cart simulator with parallel processing for 10x speed boost and faster checkouts.</li><li>Automated DB operations using AWS Lambda/Prefect with 99% data consistency across distributed systems.</li><li>Developed a native GUI application in Rust that highlights unknown objects during checkout in LCD counter-top POS systems, improving store security.</li><li>Created a real-time analytics dashboard using Gradio to visualize annotation data, reducing labeling inaccuracies by 30% and improving model training.</li></ul>	
<b>StackIt (Superjoin)</b> Founding Engineer	Bengaluru, IN June 2023 — Dec 2023
<ul style="list-style-type: none"><li>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.</li><li>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%.</li><li>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%.</li></ul>	
<b>Squbix Digital</b> Software Developer (Blockchain developer)	Bhubaneswar, IN June 2022 — Dec 2022
<ul style="list-style-type: none"><li>Optimized the DID pallet in Rust &amp; 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.</li></ul>	

TECHNICAL SKILLS

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

PROJECTS

<b>Docking Compilers</b> -	C++
<b>Ferry</b> - A high-performant, optimised <b>minimal C lang compiler</b> for RISC-V written in Rust, & <b>Yatch</b> - a five-stage, hazard & Yatch- memory-safe, 32-bit pipelined machine code interpreter for RISC-V with a built-in binary <b>decoder</b> . → <b>Demo</b>	
<b>LIND - Research</b> / Open Source Contribution -	Rust, WASM
A single-process sandbox to securely isolate program execution with fine-grained resource control to prevent system failures	
<b>DOUGH</b> -	Rust, Bash
A high-performance CLI tool for rendering markdown presentations in the terminal with custom syntax highlighting → <b>Demo</b>	
<b>BEE</b> -	Python, BitTorrent
A BitTorrent client with an item-based collaborative <b>recommendation system</b> and a <b>rating prediction system</b> with 95% acc	
<b>RESOC</b> -	React, Firebase
A college resource-sharing platform with taskboard & community chat, 200+ active users within the first 3 months. <b>Live°</b>	
<b>WEBCCHAT</b> -	GunJS, Svelte, Rust, Firebase
A decentralized chat app enabling low-latency, secure, and ephemeral messaging service. <b>Live°</b>	

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.	