

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

YourMove.AI <i>Product Manager Intern</i> <ul style="list-style-type: none">Built user engagement tools (date-ideas generator, dating coach, zodiac-compatibility analyzer) generating 300k+ views through organic marketing; improved SEO and user experience by 50% while optimizing content using Ahrefs, Google Analytics, and Google Search Console, increasing revenue by 3-5%; enhanced core product using Node.js, Ionic, and Capacitor to improve user retention.	New York, US May 2025 — Present
h011yw00d <i>AI Research Engineer Intern</i> <ul style="list-style-type: none">Working on decoupling the video generative AI engine from Scripted’s AVB stack, implementing custom distributed computing, building deploying and maintaining the production systems.	San Francisco, US May 2025 — Present
RadiusAI <i>Software Engineer</i> <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.	Seattle, US 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 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%.	Bengaluru, IN June 2023 — Dec 2023

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.