

EDUCATION

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

EXPERIENCE

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| YourMove.AI Product Engineer | New York, US May 2025 — Present |
| <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. | |
| h011yw00d AI Research Engineer Intern | San Francisco, US May 2025 — Present |
| <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. | |
| RadiusAI Software Engineer | Seattle, US 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) Founding Engineer | 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%. | |

TECHNICAL SKILLS

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| 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

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| 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

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| 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. | |