

KARTHIK SRIDHAR

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Software engineer with experience in AI-agent workflows, backend systems and end-to-end business applications. MS Software Engineering candidate at Carnegie Mellon University, graduating May 2027.

EDUCATION

Carnegie Mellon University | MS Software Engineering | Aug 2026 - Expected May 2027

Coursework: Foundations of Software Engineering; Networks in the Real World; Software Testing and Operations; Data Science for Software Engineering.

SIES Graduate School of Technology | BE Information Technology | 2019 - 2023

Grade: 9.31/10 | Teaching Assistant, Database class. Coursework: DSA, DBMS, Operating Systems, Computer Networks, OOP and Software Engineering.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL

AI: LangGraph, LangChain, RAG, tool calling, response evaluation

Backend & applications: Spring Boot, React, PostgreSQL, Redis, AWS

EXPERIENCE

GoldJar | Founding Engineer | Jun 2025 - Aug 2026

- Built the platform end to end with business owners, translating offline gold-wholesale operations into pricing, dealer-booking, order-management and administrative workflows.
- Owned implementation, testing and delivery for a platform supporting US\$1M+ in daily gold and commodities trading volume; the business reached profitability and onboards multiple clients daily.
- Built the startup alongside a full-time role at Jio. Trading volume represents transaction value, not revenue.

Jio Platforms | Software Engineer, JioMeet / JioEvents / Jio Matrix | Oct 2023 - Jun 2026

- Delivered Reliance Retail's internal incentive-management application end to end in three months; worked with stakeholders to translate business rules into application workflows, improving workflow productivity by 90%.
- Built AI assistants with Python, LangGraph and LangChain; worked on retrieval, tool calling, multi-step workflows and response evaluation.
- Helped scale online meetings from 50 to 5,000 participants and reduce infrastructure costs by 25%; developed chat and event features.

Earlier internships | Tata Memorial Hospital; LTIMindtree; Sigmaflux | Apr 2022 - Mar 2023

- Built scheduling software with double-booking checks, responsive web pages and reusable React dashboard components; contributed testing and bug fixes.

SELECTED RESEARCH

Empirical Comparison of Machine Learning Algorithms to Identify Duplicate Questions on Various Social Media Forums

- Springer, 2025. DOI: 10.1007/978-3-031-88762-8_15

Real-Time Detection and Classification of Street Signs Using Deep Learning with Voice Alert system - IEEE ICOTSEC,

2023. DOI: 10.1109/ICOTSEC58147.2023.10275836