

Harikeshav Rameshkumar

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EDUCATION

Ohio State University
B.S. Computer Science

May 2027
Columbus, OH

- GPA: 3.8/4.0

WORK EXPERIENCE

SIAGE Solutions

June 2025 – August 2025

Software Engineer Intern

Bangalore, KA, India

- Engineered an **intelligent ML-powered ticketing system** to automate prioritization and duplicate identification, which resulted in the **cleanup of thousands of tickets for 10+ clients** and streamlined their operational processes.
- Created a **secure RAG-based chatbot** that transformed clients' internal knowledge management by indexing **100+ technical manuals**, enabling retrieval of precise information on demand without jargon and **reducing documentation search time**.
- Automated the analysis of 50,000+ product reviews** by creating a pipeline for **web scraping, sentiment analysis, and insight extraction**, providing clear, actionable data to drive product improvements.

National Public School Indiranagar

June 2022 – Feb 2024

Student Organizer, Host, Mentor

Bangalore, KA, India

- Founder & Host, Codessey 2023:** Founded and directed "Codessey," the school's **first inter-school technology festival**; led the core committee in managing multi-school coordination, conceptualized hackathon challenges, established technical infrastructure, and **mentored 100+ participants** in programming and project ideation.
- Tech & PR Lead, Mathtrix 2023:** Spearheaded technology and public relations for "Mathtrix," the school's largest triennial math fest with **500+ participants**; developed a custom event management application featuring a QR check-in system, web server, and database, alongside the official landing website.
- Organizer & Developer, Regium 2022:** Co-organized the inaugural inter-school cultural festival, "Regium," **engaging 12 high schools**; managed all **digital marketing**, including **creating the website and promotional videos**, and engineered an **automated score management system** with a real-time leaderboard to **score over 30+ participants** seamlessly.

RESEARCH

Indian Institute of Technology, Madras

June 2023 – Oct 2023

Research Intern

Remote

- Predicted wireless signal strength in various indoor environment situations using **machine learning** and **electromagnetic wave theory**.
- Designed and trained **8 predictive models** using various ML models, based on collected experimental data, and generated **signal strength heat maps** to visualize results and enhance network planning in **5+ indoor spaces**.
- Co-authored a research paper** comparing model performance for practical deployment insights.

PROJECTS

LeadForge (Fully Autonomous AI Sales Platform)

Oct 2025 – Present

- Architected and co-developed a multi-agent AI platform using **LangChain** and **LangGraph** to fully automate sales workflows, from lead generation and prototyping to multi-channel outreach (email, AI-powered phone calls) and scheduling.
- Engineered a scalable backend using **FastAPI** microservices, containerized with **Docker/Docker Compose**, and deployed on **AWS**.
- Managed complex application state, lead data, and user configurations using **PostgreSQL** and **SQLAlchemy**.
- Developed a responsive **React** and **TypeScript** frontend for user configuration and monitoring of the autonomous sales agents.

Sane Jtreed (Multi-Agent AI Trading Firm)

Aug 2025 – Present

- Designed a sophisticated, multi-agent AI framework using **LangChain** and **LangGraph** that simulates a real-world trading firm, deploying specialized agents for fundamental, sentiment, and technical analysis.
- Implemented a **collaborative intelligence system** where LLM-powered agents engage structured debate loops to synthesize diverse data sources and formulate robust trading proposals, with a dedicated **Risk Management agent** to continuously assess portfolio risk against market volatility.
- Built the full-stack research platform with **FastAPI**, **ChromaDB** for vector-based RAG on financial reports, and a **React/TypeScript** frontend.

Nudgly (Native Cross-Platform Desktop Accessibility App)

May 2025 – Present

- Developed a high-performance, native desktop application from scratch using **C++**, **Qt**, and **CMake** to provide real-time, on-screen contextual assistance.
- Engineered a privacy-first architecture by integrating **local vision models (Ollama/LlaMa.cpp)** for on-device content interpretation, ensuring no user data leaves the machine.
- Interfaced directly with native operating system APIs (**Win32** and **Cocoa/Objective-C**) for low-level screen reading and non-intrusive window overlay management.

Spartan (Post Exploitation Framework)

Nov 2024 – Jan 2025

- Architected an advanced post-exploitation framework in **.NET** and **C++** capable of **fully evading modern antivirus (AV) detection**.
- Integrated capabilities for multi-node DDoS attacks, managing distributed attacks from compromised nodes on a **Linux-based custom C2 server** built from the ground-up.
- Achieved feature parity with industry-standard tools like **Metasploit**, demonstrating deep knowledge of system internals and evasion techniques.

SKILLS, COURSE WORK & INTERESTS

- Skills:** Leadership, Mentorship, Communication, Empathy, Teamwork, Mentorship, Adaptability.
- Relevant Course Work:** Low Level Programming using C; Computer Organization; Intro to Software Engineering; Discrete Structures.
- Interests:** Bodybuilding, Music and Film Production, Cricket, Video Editing, Motion FX, Photography.