

Harish Shankar

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EDUCATION

University of Massachusetts Amherst <i>Honors B.S. Computer Science, B.A. Mathematics & Minor in Philosophy</i>	May 2026 GPA: 3.89
Coursework: Operating Systems, Web Development, Programming Methodologies, Artificial Intelligence, Algorithms and Data Structures, Applied Linear Algebra, Algorithms for Data Science, AI Alignment	
Awards: Phi Beta Kappa Nominee, Chancellor's Scholarship, Dean's List (7x)	

WORK EXPERIENCE

Squire <i>Co-founder & CTO</i>	May 2025 – Present <i>San Francisco, CA</i>
<ul style="list-style-type: none">Designed and deployed a multi-agent AI assistant (Google ADK, FastAPI) with 70+ MCP tools; developed parallel agent execution cutting end-to-end latency by 63% and enabling tens of concurrent in-flight agent runsBuilt an idempotent Pub/Sub ingestion pipeline for Gmail/Calendar webhooks with retries and deduplication; removed polling overhead and enabled 0.74s median push notifications to users via iMessageDeveloped a real-time chat interface (Next.js 15, React 19) with SSE streaming, optimistic React Query cache mutations, Zod-validated type-safe data layers, CSP-hardened middleware, and voice input with silence detection	
Ericsson <i>Software Engineer Intern</i>	June 2024 – August 2024 <i>Remote</i>
<ul style="list-style-type: none">Achieved 84% model size reduction (7B to 1.1B) by engineering a knowledge distillation (KD) pipeline with SFT and LoRA on TeleQuAD dataset; delivering statistically significant gains ($p < 0.05$) across 13 linguistic metricsOrchestrated 16 experimental configurations comparing Vanilla vs. Dual Space KD; utilized Wilcoxon signed-rank tests to prove that vocabulary alignment yielded statistically significant improvements in 93% of evaluated metricsValidated RAG pipeline performance by re-executing 6 RAGAS metrics; established a 97% concordance rate with Subject Matter Experts for Factual Correctness, outperforming standard cosine-similarity baselines	
Srishti Software <i>Software Engineering Intern</i>	June 2023 – August 2023 <i>Remote</i>
<ul style="list-style-type: none">Led the migration of a 50,000+ line codebase to React Native, enabling cross-platform developmentPrototyped a Cloudflare CDN-backed caching layer for backend API responses, reducing e2e latency by up to 10sResolved critical hardware fragmentation issues on Android devices by developing a custom aspect-ratio matching algorithm for the camera feed, eliminating image distortion and improving model accuracy by 42%	

PROJECTS

NES Emulator C++	
<ul style="list-style-type: none">Built a cycle-approximate emulator, implemented 6502 CPU core, PPU graphics pipeline, cartridge bus, and APU.Supports real-time rendering, controller input, and accurate ROM execution with modular mapper support.	

LEADERSHIP & ACTIVITIES

Undergraduate Course Assistant <i>University of Massachusetts Amherst</i>	Sep 2023 – Present <i>Amherst, MA</i>
<ul style="list-style-type: none">Led weekly office hours of 30+ students; proctored examinations, graded homework, and led exam review sessions.Created specifications and autograder to test linting, coverage, and correctness of 250+ student projects.	
Product Manager <i>BUILD UMass</i>	Feb 2023 – May 2023 <i>Amherst, MA</i>
<ul style="list-style-type: none">Led a team of student developers, assigning tasks and monitoring sprint progress through Jira.Managed end-to-end product lifecycle using Agile practices, prioritizing features, and ensuring on-time delivery.	

TECHNICAL SKILLS

Languages: Python, TypeScript, Go, C/C++, Java, SQL, Rust, Swift
Frameworks: React, NextJS, FastAPI, Pytorch, Llama-Index, Google-ADK
Developer Tools: Git, Linux, Docker, CloudFlare, MongoDB, PostgreSQL, Redis