

Yash Kalwani

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EDUCATION

Tufts University

B.S. in Computer Science and B.S. Biomedical Engineering

Medford, MA

Expected May 2027

- GPA: 3.7/4.0; Dean's List all semesters
- Coursework: Operating Systems, Computer Networks, Distributed Systems, Data Structures, Algorithms, Computational Bioinformatics, Neural Networks, Database Systems, Big Data

EXPERIENCE

InterSystems

Boston, MA

Supply Chain Engineering Intern

Jan 2026 – Aug 2026

- Built an agentic AI pipeline that turns a client's natural-language request into a tailored demo of Supply Chain Orchestrator (InterSystems' analytics layer on IRIS), so sales engineers no longer had to master the product or research each client's industry
- Decomposed prompts into task plans via function calling and structured outputs, then auto-generated Angular UIs and seeded IRIS with client-specific data and queries; cut demo turnaround from days to hours, with skeleton demos in 5–15 minutes
- Adopted by Sales Engineering; onboarded Technical Product Marketing after an exec-requested demo

Data Platforms Intern

May 2025 – Aug 2025

- Built real-time observability dashboards (Grafana, Docker, Infinity plugin) for IRIS databases
- Replaced a 300+ page weekly performance report with 3 interactive dashboards and threshold-breach alerts
- Designed and consumed REST APIs; authored GitLab CI/CD pipelines (JSON generation, YAML config)

Tufts Human Interaction Lab

Medford, MA

Research Assistant

Jan 2025 – Jun 2025

- Designed a plugin architecture and version-control system for GailBot, an AI transcription platform
- Enabled third-party extensions and modular pipeline stages; adopted by 200+ researchers
- Implemented OAuth authentication and role-based permissions (MySQL) across 400+ user records

Acumen Medical Communications

Brookline, MA

Software Engineer Intern (Part-time)

Jun 2024 – Oct 2024

- Built a retrieval system (Azure AI Search, OpenAI embeddings) over a proprietary medical document library, replacing manual document search for ~40 medical writers

Seven Bridges Advisors

New York, NY

Software Engineer Intern

Jun 2024 – Sep 2024

- Led a responsive redesign of the client portal for a multi-family investment office serving as outsourced CIO to ultra-high-net-worth families and institutions; refactored legacy platforms (React, SSRs)
- Portal served 20 internal analysts and 150 clients; cut load time 60% and added full mobile support

PROJECTS

SymptomSavvy | *Flask, Python, JavaScript*

Harvard Rare Disease Hackathon 2025

- Co-built a rare-disease diagnosis platform using the Human Phenotype Ontology (HPO) and the Phrank algorithm
- Ranked candidate diseases from user-reported symptoms via Phrank semantic similarity over the HPO graph
- Linked ranked matches to medical literature and local providers; [Devpost](#), [GitHub](#).

LEADERSHIP & INVOLVEMENT

Engineers Without Borders

Boston, MA

Technical Lead

Nov 2023 – May 2025

- Designed and deployed Arduino-based (C++) lighting and irrigation systems for sustainable agriculture
- Deployed across 5 sites on campus and in Malawi; coordinated site selection and water distribution with local partners

MIT Leadership Training Institute

Boston, MA

Head Leadership Mentor

Sep 2024 – May 2025

- Expanded MIT's LTI framework to Tufts; mentored 50 high school students in leadership and communication

TECHNICAL SKILLS

Languages: Python, TypeScript, C++, C, C#, SQL, Java, HTML/CSS, MATLAB

Systems & Infrastructure: REST APIs, Docker, GitLab CI/CD, AWS, Observability (Grafana), OAuth, Linux

Agentic AI & ML: Agent orchestration, function calling, structured output parsing, PyTorch, Azure AI Search

Frameworks & Data: Flask, React, PostgreSQL, MySQL, SSRs

ADDITIONAL

Languages: Fluent in English; working proficiency in French & German | **Awards:** Best Prototype, Tech Youth Entrepreneurs Boston 2023 | **Interests:** Skiing, Rowing, Biking, Piano, Cooking, Poker