

Harry Lynch

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EDUCATION

Tufts University

Bachelor of Science in Computer Science, Minor in Finance and Mathematics

Medford, MA

August 2023 – May 2027

- Cumulative GPA: 3.8/4.0 | Major GPA: 3.9/4.0

- Relevant Coursework: Data Structures, Parallel Computing, AI, Database Systems, Linear Algebra

The Lawrenceville School | Secondary Education

August 2019 – May 2023

EXPERIENCE

Bloomberg LP

Incoming Software Engineer Intern

New York, NY

June 2026 – August 2026

Crum and Forster

Software Engineer / Data Science Intern

Morristown, NJ

May 2025 – November 2025

- Independently delivered **15+ production projects** impacting **6 divisions**, consulting with non-technical stakeholders across Actuarial, Claims, Audit, Underwriting, Accounting, and Marketing
- Built Python **ETL pipelines** to ingest, clean, and load **50k+ rows** of Excel data monthly into **Microsoft SQL Server** via T-SQL stored procedures
- Re-engineered a **statutory government filing model** from a 7-tab Excel workflow into a 6-parameter Python CLI with parallelized SQL queries, producing a submission-ready workbook in **under 10 seconds** (from 1+ hours)
- Shipped features across a **C#/.NET, SQL Server, and Angular** stack, including RESTful API endpoints, front-end UI, and database optimizations

Launch (Startup)

Medford, MA

Full Stack Software Engineer Intern

January 2025 – May 2025

- Led a team of 5 interns on backend orchestration, independently designing a normalized **PostgreSQL** and **MongoDB** schema to model company, product, and user data across the full application
- Built a **RAG pipeline** using **Ollama** and scraped social media data to power a custom AI agent that auto-generates company websites from existing online profiles
- Developed a drag-and-drop **React** interface for end-users to customize AI-generated websites, rearranging and editing components in real time

PROJECTS

JumBuddy – Overall Winner & Education Track, JumboHack 2026 |

February 2026

- Led project architecture and backend for a **VS Code extension** that captures keystroke-level edit history and computes per-symbol metrics (thrash, churn, time-on-function) to help professors diagnose student struggles
- Built a **Flask API** to ingest high-frequency editor flushes, pre-process diffs, and pipe file snapshots into an **LLM** for qualitative insight generation on student coding behavior
- Designed a normalized **PostgreSQL** schema via **Supabase** with a **React/Tailwind** professor dashboard featuring per-student analytics and an interactive code-replay timeline

Shipping Container Inventory Platform | React, Node.js, PostgreSQL, AWS

May 2024 – Present

- Designed, developed, and maintained a **full-stack web app** for internal inventory and sale management at Airtight Storage Systems, tracking **500+ containers/month** and cutting manual documentation time by **65%**
- Implemented **JWT authentication**, permission-based accounts, automated client emails, and industry-specific invoice generation; hosted live on **AWS (EC2 & S3)** for day-to-day corporate use (Actively Maintained)

Naïve Bayesian Radar-Trace Classifier | Python, NumPy, Pandas, scikit-learn

May 2025

- Built a multivariate Naïve Bayes classifier to distinguish bird vs. aircraft radar traces from velocity-time data; engineered temporal/statistical features achieving **96% accuracy** and **0.93 F1** on 10k unseen samples

TECHNICAL SKILLS

Languages: C++, C#, C, Python, SQL, TypeScript, JavaScript, x86 Assembly

Frameworks: React, Node.js, Flask, FastAPI, ASP.NET Core, Angular, Tailwind

Tools: Git, Docker, AWS, Azure DevOps, PostgreSQL, MongoDB, VSCode, Neovim, Unix

Libraries: pandas, NumPy, scikit-learn, Matplotlib

LEADERSHIP & ACTIVITIES

Tufts Varsity Football: Player – Defensive Line

Aug 2023 – May 2024

Tufts Torn Ticket II: Stage Manager, Pit Guitar Player, Actor

Aug 2023 – Present

General Interests: Guitar, Welding, Football, Theatre, Pickleball, Chess