

Kush Zingade

Boston, MA | (857) 210-0632 | kush.zingade@gmail.com | kushzingade.com | linkedin.com/in/kush-zingade | github.com/ugathedev

EDUCATION

Boston University, Kilachand Honors College

Boston, MA

Bachelor of Science in Computer Science, Minor in Data Science

May 2028 (Accelerated)

- GPA: 3.97/4.0 (Dean's List)
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Database Systems

EXPERIENCE

Software Engineer Intern

May 2026 – Present

BU Spark! | BU's Client Software Lab

Boston, MA

- **Shipped Spark!'s Project Showcase as sole author, serving 170 projects** for two teams on Cloudflare Workers (~28,000 lines of TypeScript), with zero-LLM ingestion of free-text Google Docs
- **Harvard University Herbaria:** engineered an OCR confidence layer exposing Azure's per-field certainty to reviewers (15 unit tests) and a webhook-driven CD pipeline to GHCR
- **BU Chemistry micro-credentialing:** owned the badge-authoring wizard (Next.js 15, Prisma) and cut course duplication to ~13 batched DB round-trips, clearing Prisma Accelerate's 15s transaction cap

AI & Software Engineer Intern

Apr. 2026 – June 2026

HireBuddy | AI Recruiting Startup

Boston, MA

- **Tripled candidates surfaced per search** by building the AI sourcing engine: Elasticsearch-DSL compiled from 8 field types, 3-tier ranking, a 4-level fallback, and banded `must_not` paging past a 100-result API cap
- **Cut enrichment API calls ~70%** per page with one ID-filtered query per criterion and a DynamoDB cache
- **Implemented Stripe billing for 4 subscription tiers** with credit limits enforced by DynamoDB compare-and-swap

Chief Technical Officer & Sole Engineer

Nov. 2025 – Present

Honor Society of Cinematic Arts | International 501(c)(3) Nonprofit

Boston, MA

- **Operate the system of record for 20+ chapters and 250+ users** as sole engineer: a ~300-endpoint multi-tenant API (Node/Express, PostgreSQL) with per-chapter isolation under an 8-role authorization model
- **Developed chapter billing:** fee gross-up math, discount amortization, and server-generated PDF invoices
- **Automated 15 crash-safe scheduled jobs** with a shared dedup log and an advisory-locked annual rollover

PROJECTS

Terrier Tracker | *Next.js, TypeScript, Python, Flask, PostgreSQL, Redis*

Aug. 2025 – Present

- **Serve 1,000+ students across nearly 10,000 courses** as the sole developer of a degree planner
- **Designed a constraint solver over 238 degree specs**, unblocking 120 impossible requirement groups
- **Created a semantic course recommender**, lifting Recall@10 0.41 → 0.53 and coverage 18% → 80%
- **Scaled to 660,000+ production lookups** at an ~81% tiered Redis cache hit rate

Open Source: vLLM, llm-d (Red Hat), Grafana, Redis | *Python, TypeScript, Kubernetes*

2026

- **26 pull requests merged** across 24 repositories in 17 organizations, including vLLM, llm-d, Grafana, and Redis (67 opened, 27 under review)
- **Merged a 2,500+ line Benchmarking Agent core** into llm-d-benchmark with SLO-goodput scoring, 60 tests

Red Hat-IBM Hackathon | *Python, LangGraph, FastAPI, React, MCP*

Jan. 2026

- **Won "Best Use of AI" among 70+ participants** with a LangGraph + MCP agent for Red Hat's InstructLab

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C, Bash

Frameworks & Data: React, Next.js, Node.js, Express.js, FastAPI, Flask, Django, PostgreSQL, Redis, Elasticsearch

Cloud & AI: AWS (S3, DynamoDB), Docker, Kubernetes, GitHub Actions (CI/CD), LangGraph, MCP, Claude Code