

Muhammad Moiz

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EDUCATION

Dartmouth College – B.S. in Computer Science & Engineering, GPA 3.7 (Expected Jun 2026)

Selected Coursework: Operating Systems, Compilers, Advanced Algorithms, Artificial Intelligence, Linux Malware

Honors: CS 52 Full Stack Development – Earned faculty citation for top performance in class of 60

SKILLS

Languages: Python, Java, JavaScript/TypeScript, C/C++

Frameworks: React, Node.js, Flask

Cloud & DevOps: AWS, Docker, GitHub Actions, Kubernetes

Databases & Storage: PostgreSQL, MongoDB, Redis, AWS S3, DynamoDB

Notable Certifications: AWS Cloud Practitioner (pending), IBM Full Stack Dev, CodePath Technical Interview Prep

RELEVANT EXPERIENCE

Software Engineering Intern | Muff Garments LTD – apparel e-commerce | Manchester, UK Jun 2025 – Aug 2025

- Boosted checkout conversion 32%→50% by rebuilding React/Stripe payment flows with idempotency keys.
- Achieved 99.95% uptime and cut error rates 45% using AWS Lambda + DynamoDB with DLQs/retries.
- Reduced deployment time 30m→4m (85%) by implementing Docker + CI/CD enabling 6–8 daily releases.
- Decreased post-release bugs 30% with 90% test coverage (Jest/PyTest) and rigorous code reviews.

Software Developer | Rauner Special Collections (Backed & Published by Dartmouth) Sep 2024 – May 2025

- Cut archival processing time 90% (2h→<20m) across 60+ institutions via parallelized automation pipelines.
- Eliminated 80% manual curator work by building resilient Python/Selenium scrapers for 10K+ videos monthly.
- Maintained 99.8% uptime for distributed scrapers ingesting 1K+ news articles monthly with error recovery.
- Optimized storage 25% and boosted processing speed 40% through image deduplication/classification.

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- Improved LCP 28% by automating asset pipelines on AWS Lambda + S3 with compression and optimized delivery.
- Maintained <200ms API latency for 20K+ MAUs with LRU caching, optimized SQL, and restructured endpoints.
- Cut reporting time 50% and raised accuracy 35% by building Python/SQL ETL pipelines feeding Tableau dashboards.

PROJECTS

- [Dispatch \(NestJS, PostgreSQL RLS, AWS\)](#) – Built multi-tenant SaaS automating logistics/returns with real-time sync, carrier APIs, and rule-based workflows; deployed resilient event-driven architecture for secure, fault-tolerant ops.
- [ManToGo \(React, Node.js, Mapbox\)](#) – Built Dartmouth-backed delivery platform with Dining/Payroll, creating paid student jobs and leading full-stack dev of payments, routing, and rewards; scaled to 450+ users in 6 weeks.
- [Tiny Search Engine \(C, Systems Design\)](#) – Built a web crawler, indexer, and query engine for 15K+ pages; cut average search latency from 30 s to 0.8 s using custom tokenization, memory pooling, and low-level I/O optimizations.

ADDITIONAL EXPERIENCE

- **Teaching Assistant (CS59: Programming Fundamentals) | Dartmouth College – Summer 2025** – Mentored 50+ students on C debugging; pass rate improved 12% vs. prior year.
- **Project Assistant | Evergreen.AI Research Group – Jan 2024 – May 2024** - Prototyped React/Python AI wellness platform piloted by 100+ undergrads; informed campus health initiatives.

LEADERSHIP

President, Dartmouth Alpha Lambda Mu | President, Roots IVY Alum CS Society | Founder, Young in Tech Pakistan