Muhammad Moiz

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EDUCATION

Dartmouth College – B.S. in Computer Science & Engineering, GPA 3.7 (Expected Jun 2026)
Selected Coursework: Software Design, Computer Architecture, Artificial Intelligence, Deep Learning
Honors: CS 52 Full Stack Development – Earned faculty citation for top performance in class of 60

WORK EXPERIENCE

Software Engineering Intern |Muff Garments LTD – apparel e-commerce | Manchester, UK   Jun 2025 – Aug 2025
- Delivered **99% uptime across 170+ warehouses** by building a serverless digital twin platform with global scalability.
- Built **400+ dashboards** with an authenticated React frontend (deep-linking, state sync) powering ops and BI teams.
- Designed ingestion system (S3, SQS, OSIS) processing **50M+ rows/day**, cutting onboarding time **95%.**
- Engineered sharded OpenSearch backend with retries, hitting **<500 ms** queries and driving **$11M+** patent impact.

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.
- Automated **10,000+** Dartmouth news articles with Python crawler/scraper, cutting research time 80%.
- 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.

Software Engineering Intern | Muff Garments LTD – apparel e-commerce | Manchester, UK   Jun 2023– Aug 2023
- Optimized **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) (Link) –** 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) (Link) –** 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) (Link) –** 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

- **Research Assistant | DALI LAB - Dartmouth College – 2025 –** Built Cypress testing scripts for automated end-to-end QA; improved test reliability and reduced manual effort.

- **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.

SKILLS

Python, Java, JavaScript/TypeScript, C/C++ **|** React, Node.js, Flask **|** AWS (Lambda, S3, DynamoDB), Docker, Kubernetes, GitHub Actions **|** PostgreSQL, MongoDB, Redis **|** Jest, PyTest, Cypress

LEADERSHIP

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