

Muhammad Moiz

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EDUCATION

Dartmouth College

Hanover, NH

Bachelor of Science in Computer Science and Mathematics

GPA: 3.7 | June 2026

Selected Coursework: Operating Systems, Compilers, Advanced Algorithms, Artificial Intelligence, Linear Algebra

SKILLS

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

Frameworks & Tools: React, Node.js (Express), Flask, Docker, Kubernetes

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

Cloud & DevOps: AWS (Lambda, ECS, CloudFormation), GCP (Cloud Functions), GitHub Actions (CI/CD)

Concepts: Microservices, RESTful APIs, TDD, Event-driven Architecture, Data Structures & Algorithms, System Design

RELEVANT EXPERIENCE

Software Engineering Intern | Absanoh – e-commerce platform | Manchester, UK

Jun 2025 – Aug 2025

- Increased checkout completion 32%→50% (+18 pts) by rebuilding React flow with Stripe intents + idempotency.
- Cut errors 45% and achieved 99.95% uptime by deploying Lambda + DynamoDB with DLQs/retries.
- Reduced deployments 30→4 min and enabled 6–8 daily releases via Docker CI/CD in GitHub Actions.
- Lowered post-release bugs 30% by adding Jest/PyTest (90% coverage) and leading PR reviews.

Software Developer | Dartmouth Rauner Special Collections Library | Hanover, NH

Sep 2024 – May 2025

- Enabled <1s search on 500K+ manuscripts with PostgreSQL FTS + Node/Flask indexing pipeline.
- Kept 99th percentile queries <2s during peak load by tuning indexes and adding caching layers.
- Doubled catalog throughput and saved archivists 10+ hrs/wk by automating ingest and metadata.

Software Engineering Intern | Muff Fashion LTD – apparel e-commerce | Manchester, UK

Jun–Aug 2023 & 2024

- Boosted product page LCP 28% by eliminating 60% manual asset work with Lambda/S3 async pipeline.
- Maintained p95 API latency <200 ms for 20K+ MAUs by optimizing REST endpoints with LRU caching.
- Halved reporting time and improved accuracy 35% with Python/SQL → Tableau ops dashboards.
- Cut noisy alerts 40% and improved on-call efficiency by adding tuned CloudWatch alarms.

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.
- **Tiny Search Engine (C, Systems Design)** – Built a document crawler, indexer, and querier for 15K files; reduced average query latency from 30 s to 0.8 s via custom tokenization, memory pooling, and I/O profiling.
- **ManToGo (React, Node.js, Mapbox)** – Led front-to-back implementation of payments, routing, and rewards; onboarded 150+ active users in 3 weeks and validated end-to-end order flow.
- **Nuggets (C, UDP, Multiplayer)** – Developed authoritative UDP server with interpolation; achieved <100ms sync.

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.

CERTIFICATIONS

AWS Certified Cloud Practitioner (expected 2025); CodePath Intermediate Technical Interview (2024); IBM Full Stack Developer; Scrimba Frontend (JavaScript/React)