# MUHAMMAD MOIZ

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## EDUCATION

Dartmouth College, Hanover, NH | B.S. in Computer Science & Mathematics, GPA: 3.67 | Expected June 2026

Relevant Coursework: Algorithms, Software Design & Implementation, Full-Stack Development, Security & Privacy

## WORK EXPERIENCE

**Software Engineering Intern - *Absanoh (subsidiary of Muff Garments LTD)***     Manchester, UK | Jun 2025 – Present

- Developed customer-facing checkout flows with React/Node.js, improving completion rates by 15%.
- Designed AWS Lambda + DynamoDB services with retries/DLQs, cutting recurring CloudWatch error alerts by 40%.
- Automated CI/CD with Docker and GitHub Actions, reducing deployment times from 30 to <5 minutes.
- Introduced Jest (frontend) and PyTest (backend), raising test coverage to 85% and reducing post-release defects.

**System Developer - *Dartmouth Rauner Special Collections***     Hanover, NH | Sep 2024 – May 2025

- Co-developed a full-stack archival platform indexing 500K+ manuscripts; reduced average query latency 45%.
- Re-architected PostgreSQL schema and full-text search queries, enabling sub-second retrieval for researchers.
- Built digital asset management module, eliminating manual cataloging and saving archivists 10 hours weekly.
- Partnered with archivists/historians to shape features now adopted by 20+ peer institutions.

**Software Engineering Intern - *Muff Garments LTD***     Manchester, UK | Jun 2023–Sep 2023; Jun 2024 – Sep 2024

- Optimized backend APIs and caching to serve 20K monthly users with p95 page loads <200ms.
- Deployed AWS Lambda/S3 pipelines for image processing, reducing manual work 60% and bundle size 25%.
- Built Python/SQL + Tableau dashboards for order tracking, halving warehouse reporting time.

**Project Assistant – *Evergreen.AI***     Hanover, NH | Jan 2024 – May 2024

- Enhanced full-stack workflows (Python/React) for ML-driven student wellness tools used by 500+ students.
- Improved analytics pipeline integrations, increasing engagement tracking accuracy by 30%.

## PROJECTS

- **Tiny Search Engine** (C, System Design) – Implemented crawler/indexer/querier; reduced query latency 25s →1s on 10K docs.
- **ManToGo** (React/Node/Mapbox) – Dartmouth delivery MVP; adopted 120 users in 3 weeks with integrated payments + rewards.
- **Nuggets** (UDP multiplayer, Team of 4) – Implemented authoritative server + client interpolation, maintaining <100ms sync on LAN.

## TECHNICAL SKILLS

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

**Frameworks:** React, Node.js, Flask

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

**Databases & Tools:** PostgreSQL, MongoDB, Git, Linux

## LEADERSHIP & CAMPUS INVOLVEMENT

**Teaching Assistant, Programming Fundamentals** – Mentored 50 students in C, Java, Prolog; supported compiler and DSL projects.

**President, Dartmouth Alpha Lambda Mu** – Organized 4 campus events with 300+ participants, expanded interfaith engagement.