

Muhammad Moiz

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EDUCATION

Dartmouth College

Hanover, NH

B.S. in Computer Science and Engineering — GPA: 3.7

Expected June 2027

- **Faculty Citation** (Top 1% in CS 52: Full Stack Development).
- **Teaching Assistant:** Programming Fundamentals (Summer 2025) and Full Stack Engineering (Fall 2025).
- **Selected Coursework:** Deep Learning, Machine Learning, AI, Software Design, Security & Privacy.

EXPERIENCE

Software Developer — DALI Lab, Dartmouth College, Hanover, NH

Sep 2025 – Present

- Built serverless autograder on AWS Lambda + FastAPI, scaling to 2K+ users and reducing grading latency by 50%.
- Integrated automated CI/CD pipelines via GitHub Actions and Docker, cutting environment setup time 40%.
- Led adoption of standardized Git workflows across 10+ dev teams, reducing merge conflicts 40%.

Software Engineering Intern — Muff, Manchester, UK

Jun 2025 – Aug 2025

- Secured internal analytics access for 100k+ factory employees and vendors by designing and deploying OAuth 2.0 SSO authentication across production and HR systems.
- Enabled seamless synchronization of live production dashboards between factory floor tablets and web control panels using a custom WebRTC P2P communication layer.
- Reduced feature development time by 50% by migrating the production tracking app from Angular to React Native for unified cross-platform development.

Research Assistant — Evergreen.AI Research Group, Hanover, NH

Mar 2025 – Jun 2025

- Optimized hybrid inference with TensorFlow Lite + cloud APIs, cutting model latency by 25%.
- Fine-tuned transformer models via PyTorch + Hugging Face for drift detection and adaptive retraining.
- Built automated experiment tracking pipelines ensuring version control and reproducibility.

Software Developer — Rauner Special Collections Library, Hanover, NH

Aug 2024 – Mar 2025

- Automated ingestion for 10K+ archival records via AWS Lambda + PostgreSQL, halving manual effort.
- Implemented asynchronous Celery + Redis pipelines for fault-tolerant, scalable data ingestion.
- Added encryption, RBAC, and integrity checks to ensure compliance and data security.

Software Engineering Intern — Muff, Manchester, UK

Jun 2024 – Aug 2024

- Built a real-time manufacturing analytics platform serving 20k+ active users using React and MongoDB.
- Automated 600K+ daily updates by integrating ERP with 8+ logistics and order systems, removing manual work.
- Improved consistency across 50+ global sites with localized interfaces, regional units, and multilingual support.

PROJECTS

Autod — AI Web App Generator | *Next.js, React, tRPC, Prisma, PostgreSQL/Neon, AWS, Clerk, Inngest*

- Developed AI-driven generator translating natural-language prompts into full-stack production web apps.
- Architected ECS + RDS + CloudFront stack with containerized CI/CD, maintaining 99.9% uptime.

ManToGo — Campus Delivery Platform | *React, Node.js, Express, Mapbox, Stripe API, MongoDB*

- Launched real-time delivery platform serving 450+ users; processed 1K+ orders with <200ms average latency.
- Designed REST APIs, payment integration, and async pipelines for reliable operations at scale.

Full-Stack Social Platform | *Next.js, React, Prisma, MongoDB, NextAuth*

- Built responsive, real-time social app with JWT authentication and optimized caching.
- Reduced page load times by 35% via query optimization and lazy loading.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C/C++, SQL, HTML/CSS

Frameworks & Tools: React, Node.js, Docker, Kubernetes, AWS (Lambda, ECS, RDS), PostgreSQL, MongoDB

Testing & DevOps: PyTest, Cypress, GitHub Actions, Prometheus, Grafana

Focus Areas: Scalable Systems, Full-Stack Development, Cloud Infrastructure, ML Deployment