MUHAMMAD MOIZ

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EDUCATION

Dartmouth College

B.A. in Computer Science Modified with Engineering | Expected Jun 2026

Relevant Coursework: Computer Architecture, Embedded Software Development, System Software Design (C), Architecture **TECHNICAL SKILLS**

Languages: C/C++, Java, Python, JavaScript, Assembly Language

Development Tools: Git, Android Studio, Software Development Tools for embedded systems

Systems: Linux/Unix, Embedded Software, System Software architecture, Electric Vehicle software simulation

Software Development: User Experience optimization, Infotainment systems, Return On Investment analysis

WORK EXPERIENCE

System Developer, Dartmouth Rauner Special Collections

Hanover, NH | Apr 2024 – Present

Manchester, UK | May 2023 – Aug 2023

Manchester, UK | Mar 2023 – May 2023

London, UK | May 2021 – Aug 2021

Hanover, NH

- Engineered an Instagram profiling tool for digital processing, improving efficiency by 85% with measurable return on investment
- Created a Python+Selenium YouTube archiver handling 5,000 videos/month, cutting manual data entry by 80%
- Created user experience improvements through touch-responsive interfaces, reducing interaction time by 35%

Software Developer, Astraic Tech

- Integrated AI-powered recommendations using C++ and software development tools, increasing active users by 30%
- Implemented product recommendation engine with infotainment-style interfaces, improving monthly sales by \$75K
- Developed AI chatbot using embedded software techniques, cutting response times by 83% for improved user experience

Software Engineering Intern, Muff Garments

- Utilized computer engineering principles to design and implement efficient backend systems with C++ for data processing
- Improved user experience through responsive design techniques applicable to infotainment systems
- Developed custom software development tools that increased team productivity by 25% with clear return on investment

Lead Developer, Maves Apparel

- Scaled traffic to 30,000+ monthly visitors and managed a 20+ person team by executing iterative product and marketing sprints
- Optimized load times by 30% and raised engagement by 25% through front-end refactoring (HTML5, CSS3, JS, React)
- Drove targeted campaigns using Google Analytics, lifting traffic by 40% and improving subscriber rates by 15%

PROJECTS

Nuggets: Multiplayer Exploration Game

- Engineered a UDP-based engine synchronizing player actions under 100ms, reducing input-to-display latency by 40%
- Implemented line-of-sight and slope analysis algorithms, optimizing rendering performance by 30%
- Designed modular architecture with robust error handling, reducing bug reports by 40% and improving system stability

Tiny Search Engine

- Engineered a complete search system using C/C++ with embedded software techniques for memory optimization
- Developed custom software development tools for indexing and query processing in resource-constrained environments
- Applied computer engineering principles to optimize system performance, achieving 60% faster response times

Dartmouth News Scraper

- Designed a distributed processing system for archiving Dartmouth News articles with fault-tolerant architecture
- Implemented efficient algorithms for image processing and duplicate detection, optimizing resource utilization
- Created modular code structure with object-oriented design principles for maintainability and future feature integration

ResumeAI - Intelligent Resume Optimization System

- Engineered a full-stack system software application (Flask/React) with embedded components for ATS scoring
- Integrated Gemini API using custom development tools, creating infotainment-style interfaces for document processing
- Implemented computer engineering principles for efficient resume-job matching with electric vehicle-inspired UX
- Designed modular architecture demonstrating strong ROI through 70% faster optimization than competing solutions

LEADERSHIP & COMMUNITY INVOLVEMENT