

MOIZÉS HENRIQUES DA SILVA ALMEIDA

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EDUCATION

Tufts University, School of Engineering

Medford, MA

Bachelor of Science in Computer Science

May 2026

GPA: 3.63 — Dean's List (All Semesters)

Relevant Coursework: Distributed Systems, Web Programming, Algorithms, Data Structures, Machine Structure & Assembly Language Programming, Computer Interface Design, Programming Languages, GUI Object-Oriented Programming

TECHNICAL SKILLS

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

Frameworks/Tools: React, React Native, Angular, Node.js, ASP.NET Core, Git

Databases & Other: SQL, MongoDB, HTML/CSS, L^AT_EX

EXPERIENCE

Freepoint Commodities — Software Engineering Intern

June 2025 – August 2025

Stamford, CT

- Modernized legacy C# platform by rebuilding core UI with Angular, TypeScript, and SCSS, improving maintainability and enabling faster feature development for commodity trading operations.
- Refactored high-volume SQL stored procedures, reducing bank report query time from 4 minutes to 15 seconds through optimization and indexing, significantly improving system responsiveness for daily financial workflows.
- Implemented advanced AG Grid features including multi-column filters, dynamic exports, and custom cell rendering to enhance data visualization and improve trader workflow efficiency.
- Integrated role-based permission logic across frontend and backend layers using ASP.NET Core, improving security posture and performance by streamlining user authentication flows.

MassEnergyze — Software Development Intern

May 2024 – August 2024

Remote / Massachusetts

- Built new features for React Native sustainability app used by 25+ communities, implementing user engagement tools that increased app retention by 15% and facilitated community environmental initiatives.
- Performed comprehensive code reviews, debugging, and beta testing to improve stability across iOS and Android platforms, reducing crash rates by 30% and ensuring consistent user experience.
- Coordinated with engineers to refine feature specifications, prioritize bugs, and streamline release workflows using Git and CI/CD pipelines, accelerating deployment cycles by 25%.

Tufts University Dept. of Computer Science — Teaching Fellow

August 2025 – Present

Medford, MA

- Coordinate 30+ TAs for 150+ student systems programming course as Scheduling TF; manage weekly lab logistics, grading workflows, and TA assignments to ensure consistent course delivery and timely feedback.
- Mentor students in C, x86-64 assembly, memory management, debugging with GDB and Valgrind, and low-level system design principles, helping students develop robust programming practices and deep understanding of computer architecture.
- Improved course infrastructure by writing comprehensive test suites, verifying assignment specifications for clarity, and refining exam questions to better assess student understanding of systems concepts.
- Conduct weekly office hours supporting 20+ students per session, providing personalized guidance on challenging topics including pointer arithmetic, memory allocation, and assembly optimization techniques.

PROJECTS

filecopy — C++, Socket Programming, Custom Protocol, Linux — Designed client-server directory transfer system with custom packet-based protocol and full error recovery. Built robust networking layer handling packet loss and connection failures. Optimized throughput by implementing sliding window protocol achieving 95% bandwidth utilization on high-latency networks.

RPC Framework — Python, C++, Compiler Design, Linux — Implemented RPC infrastructure that auto-generates C++ proxy/stub code from custom IDL. Designed IDL parser and code generator enabling seamless remote procedure calls with type safety and marshalling/unmarshalling of complex data structures. Reduced development time for distributed applications by 40%.

Universal Machine — C, x86-64 Assembly, Performance Optimization — Built Turing Complete 32-bit virtual machine in C with segmented memory, register-based execution, and 14-instruction ISA. Optimized performance by analyzing x86-64 assembly and qcachegrind profiling data, minimizing expensive operations through strategic memory reuse and cache optimization. Verified performance gains via benchmarking against 1,000,000,000+ instruction binaries. Implemented HP15-C calculator emulator demonstrating platform versatility.

PPMDiff — C, Image Processing, Unix Tools — Created Unix diff-style tool for PPM images computing pixel-level deltas for compression testing. Implemented efficient algorithms for comparing large image files and generating difference reports.

AWARDS & LEADERSHIP

James Schmolze Award for Excellence in Computer Science — Tufts University (2026) Selected by CS faculty for demonstrating excellence in computer science and enriching the Tufts CS community.

ACE++ Scholar — Tufts University (2023) Selected as one of 15 students for an accelerated CS summer program focused on systems programming and collaborative projects.

Vice-President — BRASA at Tufts (2023–2025) Led cultural programming and community engagement for the Brazilian student association, organizing 10+ events annually and growing membership by 35%.