Mohamed Ahmed

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Summary

Passionate Computer Science student with strong foundations in systems engineering and software development. Building scalable web systems and low-level computing tools using Python, JavaScript, Java, and C++. Experienced in collaborative software development, debugging complex systems, and writing performant, maintainable code. Demonstrated ability to design and implement systems from concept to deployment while maintaining high standards of code quality and technical excellence. Eager to learn new domains and contribute to building better internet infrastructure.

Education

Bennington College Bennington, VT

Bachelor of Arts in Computer Science, Minors in Data Science and Mathematics *May 2027*

Relevant Coursework: Systems I & II, Data Structures, Algorithms, Functional Programming, Statistical Methods for Data Analysis, Linear Algebra, Calculus, Fourier Analysis, Abstract Algebra, Non-Dynamical Systems, and AI & Ethics.

Experience

Co-Founder and COO Jan. 2025 – Present

Agabb *Vermont, United States*

- Co-founded East Somaliland's first locally-sourced bookkeeping platform and POS system, serving 10+ businesses.
- Designed and developed robust web systems for sales, inventory, and financial records using Python, JavaScript, MongoDB, and AWS, focusing on performance and maintainability.
- Championed user-centric features based on local business needs, ensuring accessibility and reliability.
- Plan and execute projects from ideation to deployment, managing timelines and collaborating with cross-functional teams.

Admissions Intern Jan. 2025 – Present

Bennington College *Bennington, VT*

- Lead campus tours for prospective students and families, demonstrating strong communication and presentation skills.
- Led digital content creation, increasing audience engagement and reach by 40%.

STEM Instructor June 2024 – Aug. 2024

Lavner Education *Saint Paul, MN*

- Guided 10+ students through coding projects, applying OOP and DSA resulting in 100% assessment success rate.
- Instructed students in Web and Mobile App Development, emphasizing teamwork and collaboration.

Teacher, Academics, Admissions & Systems Administrator Aug. 2022 – July 2023

Abaarso School of Science and Technology *Somaliland*

- Taught Mathematics, English, and Leadership to 68 high school students, developing curriculum and assessment strategies.
- Managed and analyzed student performance data across 300+ accounts, creating reports to track academic progress.
- Designed data collection systems for admissions, tracking 3,000+ exam takers and reaching 70+ schools in 6 regions.

Projects

Assembler | *Python, Hack Assembly Language* Fall 2024

- Collaborated with classmates to implement a full assembler translating Hack Assembly to machine code using file I/O and hash maps, demonstrating systems-level understanding.
- Designed clean, modular, and testable codebase applying OOP principles and data structure optimization for performance and maintainability.

Virtual Machine Translator | *Python, Hack VM Language* Fall 2024

- Translated high-level virtual machine code into low-level assembly, supporting arithmetic and memory operations with focus on system performance.
- Improved modularization and documentation for scalability and code readability, emphasizing maintainable and clear code structure.

Technical Skills

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

Frameworks & Tools: React, Next.js, Node.js, Flask, FastAPI, Django, Git, Linux, Docker, AWS, Google Cloud

Systems & Concepts: Low-level Computing, Systems Programming, Data Structures, Algorithms, REST APIs, CI/CD, Agile Methodology

Additional: SQL, R, MongoDB, Redis, Pandas, NumPy, Matplotlib

Responsibilities

Mathematics Teaching Assistant: Quantitative Reasoning and Mathematical Modeling, Linear Algebra, Sets Logic and Proof, Dynamical Systems, Newton's Principia

International Students Task Force: Plan and draft policies affecting international students at Bennington College