

# Chikwanda Chisha

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## EDUCATION

**Dartmouth College, Hanover, NH - Cumulative GPA: 3.73/4.0**

**Jun 2026**

- BA, Computer Science and Economics
- Coursework: Programming and Computation, Object-oriented Programming (OOP), Calculus II & III, Introductory Statistical Methods.

**Trident College Solwezi, Zambia - Grade: A**

**Nov 2021**

- British A-Levels: Mathematics, Physics, Chemistry, Biology, and Further Mathematics

**Awards/Honors:** \$30k+ First Quantum Mine Limited (FQML) scholarship, Dartmouth Third Honors (2022-2023)

## SKILLS & INTERESTS

**Programming Languages:** Python, Java, HTML5, JavaScript, CSS

**Tech-stacks:** Github, Git Flow (Version Control), React.js, Firebase

**Skills:** Unit Testing (PyTest), Machine Learning, Deep Learning, Microsoft 365, Canva, and Google Workspace.

**Language:** English (fluent), Bemba (fluent), Nyanja (intermediate), French (intermediate), Nigerian Pidgin (basic)

**Interests:** Real estate, afro dance, guitar, photography, NBA

**Activities:** ColorStack, Dartmouth Tech Consulting Group, Women in Computer Science, Dartmouth African Student Association

## PROJECTS

**Grade Analyst: a website providing relevant metrics from class grades**

- Built a responsive and interactive user interface using React and integrated Firebase for real-time data storage
- Implemented statistical analysis features to calculate and display metrics such as mean, median, mode, and interquartile range

**Sudi: speech tagging using the Viterbi Algorithm and Hidden Markov Model**

- Implemented advanced speech tagging techniques, leveraging the Viterbi Algorithm and Hidden Markov Model trained on simple files and tested on the Brown Corpus dataset
- Achieved 96.5% accuracy for the trained Hidden Markov Model on the Brown Corpus dataset

**Graphy: using Java Socket API and Threading**

- Developed an interactive and real-time collaborative drawing platform using the Java Socket API and advanced multi-threading techniques (Concurrent Execution, Synchronization, Daemon Threads)
- Facilitated seamless collaboration among multiple users, enabling at least 5 users to produce and edit graphics in real-time

**File Compressor: using Huffman Encoding Algorithm**

- Developed an efficient File Compressor program utilizing the Huffman Encoding Algorithm
- Successfully implemented file compression, resulting in a reduction of over 45% in file size with 95% efficiency

**GPS: a miniature campus "Google Maps" using breadth first search (BFS)**

- Created a miniature Google Maps that finds the fastest route to a location on campus for the user.
- Achieved over 90% accuracy.

## EXPERIENCE AND ACTIVITIES

**Nerd Apply, Virtual**

**June 2024 – Aug 2024**

**Frontend Developer**

- Contributed to the creation and maintenance of responsive web apps using HTML, CSS, JavaScript, and React.js, ensuring cross browser compatibility.

**Ernest Everett Just Research Program, Dartmouth College - Hanover, NH**

**May 2023 – Aug 2023**

**Research Intern**

- Secured \$10k research funding for a Computer Science project
- Collaborated with a team of four to develop a deep learning ML model that adapts to a robot's external environments using NLP and carried out interpretative experiments to understand the inner workings of the models

**Academic Skill Centre (ASC), Dartmouth College - Hanover, NH**

**Jan 2023 – June 2023**

**Tutor - Calculus and Computer Science (Data Structures & Algorithms in Java)**

- Implemented the teacher as facilitator methodology to elevate math and calculus teaching, leading to an average grade enhancement of one full letter grade for students
- Conducted individual assessments to identify students' strengths and weaknesses, providing targeted support that led to notable improvement in weaker areas

**Collis Center, Dartmouth College - Hanover, NH**

**Sep 2022 – Present**

**Event Production Staff - Head Technician**

- Partnered with 8 teammates to organize, plan and execute event operations for various campus events while maintaining visual, light, and audio systems
- Fostered increased student participation in community activities, contributing to the overall student mental health indicators on campus