

# Clement Nyanhongo

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Personal site: [kudakwashe.me](http://kudakwashe.me)

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## EDUCATION

### **Dartmouth College, Hanover, NH**

**Expected June 2018**

**Major:** BE in Computer Science and Engineering

**Relevant Coursework:** Scientific Programming, Object Oriented Programming, Systems, Engineering Statistics  
Probabilistic Systems, Differential Equations, Distributed Systems, Linear Algebra, Information Technologies,  
Microeconomics, Digital Electronics, Full Stack Web Development, Machine Learning, Database Systems.

**GPA \*\*\*4.0**

**Computer skills:** Matlab; C; Java; Web technologies such as HTML/CSS/ Node.js/JavaScript/React/Redux/ APIs/MongoDB;  
React-Native; Statistical software such as R, STATA; Solidworks; VHDL(Hardware descriptive language)

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## WORK EXPERIENCE

### **Student IT Consultant, Dartmouth Information Technology Services**

- Provided technical support for classroom equipment, network connection and software installation tasks.
- Fixed Windows and Mac software issues for students and helped to install security updates for various systems

**June - Sept  
2017**

### **KPMG, Corporate Finance intern, (Harare, Zimbabwe)**

- Analyzed financial data of multiple companies to identify historical and operational trends.
- Prepared valuations and due diligence reports for clients, and drafted presentations for mergers and acquisitions, debt equity swaps and IPOs

**June - Sept  
2016**

### **Agua Inc. Development Group Engineering Intern , (Boulder, Colorado)**

- Contributed to the front-end development of the company's website using CSS/HTML and JavaScript.
- Designed Auto-Cad drawings for construction of new structures and dumping sites using SolidWorks

**June- Sept  
2015**

### **Lab and TA assistant, Dartmouth College**

- Teacher Assistant for Intro to Programming (ENGS 20) and Lab Assistant for System Dynamics (ENGS 22) (directing lab procedures and guidance on use of oscilloscopes, breadboards, circuits etc.)

**Jan 2015 –  
present**

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## PROJECT EXPERIENCE

**Enigma Machine (Digital Electronics, Spring 2017)** - In a team of two, we created a polyalphabetic cipher in style of an Enigma machine. The system used serial communication to receive, encode and transmit ASCII characters from hexadecimal x20 - x7E. Implementation was done using VHDL and an fpga to simulate rotors, and circuit wirings.

**Health Recommender Systems (Modern Information Technologies, Winter 2017)** - Designed a statistical health recommender system that mines data from clinical records to give insights and recommendations on health policies. The implementation was done using R and open source health data. Regression and neural network packages from R helped to discover trends.

**Web Development and Application Design (2017)** – Created multiple web applications for various assignments. This involved front-end and back-end design using React and Mongo. A significant project is an Officehour app, which we designed to help schedule office hours and maximize efficiency between users. I'm also creating an agricultural app to facilitate equipment sharing.

**Data structures and algorithms (Object Oriented Programming, Winter 2016)** - Carried out multiple assignments on game development (Connect-four game, Kevin Bacon and Kalah); encoding and compression (Huffman coding); cryptography; graph theory; algorithm analysis i.e. K-means, sorting and the use of graphical user interface (GUIs).

**Semiconductor thin films (Material Science, Spring 2016)** - Worked with a team of four students to optimize crystallization semiconductor thin film materials. Application of results could boost efficiency of on-chip data links and create cost-effective solar cells).

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## HONORS and LEADERSHIP

- Joshua Nkomo Scholarship Recipient- Awarded to the top 50 high school academic achievers in Zimbabwe. Advanced level 4/4 distinctions, Ordinary level 12/12 distinctions.
- United States Achievers Program Scholar- Highly selective program to sponsor high achieving students in university applications.

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## EXTRACURRICULAR ACTIVITIES

- Regular participant in Hackathons, Digital Arts Lab Pitch competitions and Thayer Consulting Case Competitions.
- Voluntary project – Drafted and set up a poultry farm project in Nicaragua through a non-profit called Bridges to Community.
- Undergraduate Advisor – Provide individual support to residents in meeting their personal, social and academic needs.
- Sport Activities: Cricket player for the Dartmouth Cricket Club