

# Chukwuka Chukwuocha

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## EDUCATION

### UNIVERSITY OF MANITOBA

#### MS.C IN COMPUTER SCIENCE

Grad Aug 2020 | Winnipeg, Canada

Coursework in:

- Online Algorithms
- Graph Theory
- Parallel Computing
- Cloud computing

Thesis: Blockchain for Vehicular Networks

Cum. GPA: 4.0 / 4.5

### KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES

#### B.TECH IN COMPUTER SCIENCE & ENGINEERING

Grad. June 2018 | Coimbatore, India

Extensive Coursework in:

- Data structures & Algorithms
- Computer Networks

Honors: Magna Cum Laude

Cum. GPA: 9.14 / 10.0

### LOGOS HIGH SCHOOL

Grad. May 2013 | Awo-Omamma, Nigeria.

## SKILLS

### TECHNICAL SKILLS

Proficient with:

Python • JavaScript(ES6) • Typescript  
React • Redux • Node.js • Hyperledger  
MySQL • Linux •  $\text{\LaTeX}$  • Android Studio

Familiar with:

Machine Learning • PHP • Docker • Java

### SOFT SKILLS

Strong

Critical thinking • Public speaking

## WORK EXPERIENCE

### UNIVERSITY OF MANITOBA

#### TEACHING ASSISTANT

Sept 2019-Dec 2019 | Parallel

Computing

- Evaluated students' performance in this course on their projects and presentations.
- Spearheaded increase in efficiency of course curriculum by 30%.
- Received excellent feedback from the students.

### STUDY N TEACH, BANGALORE FULL STACK WEB DEVELOPER

June 2017-December 2017 | Intern

- Built a Launch website for online polls & discussion forums called OpinionDonkey.
- Increased visibility by 45% by designing Logo for the online polling startup brand.
- Leveraged Knowledge in React.js, Redux, Node.js & debugged using chrome developer tools.

## TECHNICAL PROJECTS

### BIOMEDICAL TEXT MINING | GITHUB

Sep 2017 - March 2018 | Coimbatore, India

- Built a Text Mining Framework with python that detects drug names in research papers using Machine learning algorithms such as CRF and naive Bayes.
- Facilitated a 45% improvement in efficient research into newer cancer drugs for the Chemistry department, Karunya Institute of Technology and Sciences.

### VANET BLOCKCHAIN | GITHUB

Jan 2020 - August 2020 | Winnipeg, Canada

- Created a trust inference model on the Hyperledger using node.js & python for secure communication in vehicular networks.
- Increased the accuracy of calculating the credibility of an event message in the network by 50% using proximity to event location and beta priors.

### SIZE-DENSITY TABLE BITCOIN MINING | GITHUB

Nov 2018 - Jan 2020 | Winnipeg, Canada

- Devised a Size-Density table (SDT) strategy using python for selecting cryptocurrency Transactions from the mempool.
- SDT improved on heap sort by reducing runtime from  $O(n \log n)$  to  $O(n)$  with comparable profit values on real-time bitcoin mempool data obtained from blockchair.com.

### WEATHER FORECAST | WEBSITE, GITHUB

Summer 2020 | Winnipeg, Canada

- Built a web application using react for providing an 8 day forecast for any location a user inputs.
- Implemented geocoding by using the openpage API.

## AWARDS

2019	University	Michael S. Doyle Graduate Award for Academic Excellence
2018	University	International Graduate Student Award Scholarship
2014	3 <sup>rd</sup> /20	English Literary Drama Competition, Karunya Institute
2013	1 <sup>st</sup> /160	Best graduating Student, Logos High School
2012	State Level	1 <sup>st</sup> Nigerian National Mathematics Olympiad
2012	National	Nigerian National Biology Olympiad Finalist