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 • LaTeX• Android Studio
Familiar with:
Machine Learning • PHP • Docker • Java

SOFT SKILLS
Strong
Critical thinking • Public speaking

WORK EXPERIENCE

UNIVERSITY OF MANITOBA
Teaching Assistant
Fall 2019-December 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.

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(nlogn) 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 opencage API.

AWARDS

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

PUBLICATIONS

[1] C. Chukwuocha, T. Mathu, and K. Raimond. Design of an interactive biomedical text mining framework to recognize real-time drug entities using machine learning algorithms. *Procedia computer science*, 143:181–188, 2018.

[2] S. Dos Santos, C. Chukwuocha, S. Kamali, and R. K. Thulasiram. An efficient miner strategy for selecting cryptocurrency transactions. In *2019 IEEE International Conference on Blockchain (Blockchain)*, pages 116–123. IEEE, 2019.