Chukwuka Chukwuocha

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EDUCATION

UNIVERSITY OF MANITOBA
MS.c in Computer Science
Program Completion Aug 2020 | Winnipeg, Canada
Coursework: Parallel Computing, Online Algorithms, Graph theory & 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
Coursework : Data structures, Algorithms, Operating Systems, Computer Networks, Discrete Math & JavaScript
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) • React/Redux • Node.js • Hyperledger • MySQL • Git • Linux • Agile(Scrum) • LaTeX • Android Studio
Familiar:
Machine Learning • PHP • Go! • Docker

SOFT SKILLS
Teamwork • Creativity • Problem Solving

WORK EXPERIENCE

UNIVERSITY OF MANITOBA
Teaching Assistant
Fall 2019-December 2019 | Parallel Computing
- Advised students in this course on their projects and presentations.
- Help increase efficiency of course curriculum by 30%.
- Received excellent feedback from professors and students alike

TECHNICAL PROJECTS

BIOMEDICAL TEXT MINING | GITHUB
Sep 2017 - March 2018 | Coimbatore, India
- Built a Text Mining Framework that recognizes various biomedical entities when connected to a database like PubMed or DrugBank 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
- Built a trust inference model on the hyperledger using node.js & python for communication security in vehicular networks
- improved the accuracy of calculating the credibility of an event message in the network by 50% using dynamic metrics and bayesian statistics.

SIZE-DENSITY TABLE BITCOIN MINING | GITHUB
Nov 2018 - Jan 2020 | Winnipeg, Canada
- Implemented a Size-Density table (SDT) strategy using python for selecting cryptocurrency Transactions from the mempool
- Implemented several mining algorithms such as heap sort for comparison with the SDT strategy using real-time bitcoin mempool data obtained from blockchair.com
- SDT improved on heap sort by reducing runtime from $O(n\log n)$ to $O(n)$ with comparable profit values

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

Year	Level	Award
2019	University	Michael S. Doyle Graduate Fellowship Award for Academic Excellence
2018	University	International Graduate Student Award Scholarship
2014	3rd/20	English Literary Drama Competition,Karunya Institute of Technology
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.