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Chukwuka Chukwuocha

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Education

Winnipeg, MB **University of Manitoba** **Sept 2018 – October 2020**

- M.Sc. in Computer Science, GPA: 4.0
- Graduate Coursework: Online Algorithms; Cloud Computing; Parallel Computing; Graph Theory.
- Thesis: Blockchain for Vehicular Networks.

Coimbatore, Tamil-Nadu **Karunya Institute of Technology** **July 2014 – June 2018**

- B.Tech in Computer Science & Engineering, GPA: 9.14
- Coursework: Algorithms & Data Structures; Operating Systems; Networks; Android development;

Employment

Teaching Assistant **University of Manitoba** **Sept 2019 – Dec 2019**

- Course: Parallel Computing.
- Evaluated students' performance course on their projects and presentations.
- Spearheaded increase in efficiency of course curriculum by 30%.

Full Stack developer, Intern **Study N Teach** **June 2017 – Nov 2017**

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

Software Projects

Personal Website : www.chuksxd.com (for additional information and projects)
Biomedical Text Mining (https://github.com/ChuksXD/BiomedicalTextMining)

- 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 (https://github.com/ChuksXD/VANET-Blockchain)

- 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 (https://github.com/ChuksXD/SDT-Blockchain)

- 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 to $O(n\ log\ n)$ to $O(n)$ with comparable profit values on real-time bitcoin mempool data obtained from blockchair.com.

Weather Forecast (http://weather-app-36631.web.app)

- 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.

Skills

Software:(*Proficient*:) Python, JavaScript, React, Redux, Node.js, MySQL, Git (*Familiar*:) Php, Java, Docker