Daniel Mawunyo Doe

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EDUCATION

UNIVERSITY OF HOUSTON
Houston, TX
Doctor of Philosophy - PhD Electrical Engineering Candidate
(Expected graduation May 2024)

UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA
GPA: 4.0
Chengdu, Sichuan
Master's degree computer science and technology
(Jul 2021)

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY
GPA: 3.51
Kumasi, Kumasi
Bachelor's degree Computer Engineering ***(Jan 2018)***

ADDITIONAL SKILLS

ROS 2 Programming, Java, Unity, VR and AR programming, PHP, C#, Data Mining, Python (Flask, Django, TensorFlow, PyTorch), C/C++ Programming, HTML, CSS, JavaScript (ReactJS, VueJS, AngularJS, NodeJS), MATLAB, Solidity, PowerBI, Database Management (MySQL, NoSQL, MongoDB, SQLite, PostgreSQL), Full-stack Software Development (Frontend and Backend).

Others:

Critical thinking skills, Strong Communication, Teamwork, Project management, Remote collaboration tools, Interpersonal Skills

CERTIFICATIONS

Google Data Analytics March 2022

CAREER OBJECTIVE

I am passionate about conducting interdisciplinary research (Software Engineering, Machine Learning, Wireless Networks, Blockchains, Computer Vision and Robotics, Finance, Marketing and Supply Chain). My Ph.D. research focuses on Web 3.0, Computer Vision, AR and VR, privacy, and security, blockchains, and wireless networks.

EXPERIENCE

CO-OP TOYOTA INFOTECH ***(MAY 2023 – AUG 2023)***

- Spearheaded the project titled "Leveraging Edge Computing for Augmented Reality (AR) in Autonomous Vehicles."
- Developed key components: an object detection model, eye and head tracking model, and a recommendation system.
- Explored and quantified the advantages of edge computing in AR.
- Actively contributed to peer-led tasks and projects and Offered specialized knowledge on AR and edge computing
- Authored four distinct patent submissions, one journal, and two conference papers.
- Proactively engaged in the company's workshops and training programs.

UNIVERSITY OF HOUSTON ***(AUG 2021 – PRESENT)***

- Researching into web 3.0, blockchains, privacy preservation for localization-based systems.
- Researching into applications of game theory, contract theory, and machine learning to blockchain systems and wireless communication systems.
- Conducted research and analyzed information obtained from vario us sources, independently and as part of a research team, in prepa ration of background papers, project proposals, and publications.
- Developed a DApp with ReactJS and solidity for managing blockchain transactions based on a weighted sorting algorithm.
- Collaborated with Toyota on image optimization for HD map generation and optimized data transfers.

UNIVERSITY OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA ***(SEP 2019 - JUN 2021)***

- Researched reinforcement learning, game theory, and blockchains for resource allocation and pricing in wireless communication.
- Researched federated learning for computation offloading in smart grids.
- Proposed a road accident prediction model to curb road fatalities in a big data analysis course.
- Acquired knowledge of lab equipment and procedures while working as a research lab assistant.
- Developed a web app for predicting student apartment prices with ReactJS.

REFERENCES, PATENTS AND PUBLICATIONS

References and publications available upon request