

Graduate Research Assistant Graduate Research Assistant Graduate Research Assistant - University of Tennessee at Chattanooga (UTC) Chattanooga, TN I am a machine learning graduate research assistant with strong background in computer science and a good experience in software engineering

Work Experience

Graduate Research Assistant University of Tennessee at Chattanooga (UTC) - Chattanooga, TN January 2019 to Present Using machine learning to investigate the link between response-time on mobile apps and brain health.

Data Engineer and Development Team leader Dot Energy Consulting - Khartoum, SD November 2017 to December 2018 Built a prediction system for the network faults from the old alarms combining supervised and unsupervised learning methods (data cleansing, stemming, tokenization, clustering and building the final learning model) ? Built a new unified interface between different systems for Zain Telecom company (Zain Group). ? Information extraction from the old data (free texts) into a new interface using NLP/machine learning tools such as NLTK. ? Building containerized end to end data pipelines. ? Hired and trained the new development team (three new developers).

Cofounder & Part time Full-Stack Python Engineer MobiGo October 2016 to November 2017 Led a team of 3 engineers on the technical implementation of Pocket, a payment mobile/web application which enables service payment and money transfer. ? Designed the system architecture on AWS and the RESTful APIs for mobile and web interfaces using Django. ? Led the testing phase with the authorities, resulting in a launch ready product.

Principal Android Developer My Small Community - Dubai, AE August 2016 to November 2017 Added 50% of the current features of the app and rewrote the entire legacy code into a more maintainable version. ? Fixed the bugs, wrote automated tests and Python scripts for content testing. ? Added a caching layer to the system and optimized the code for poor resourced devices.

Teaching Assistant | Software Engineering & Machine Learning University of Khartoum October 2015 to August 2016 Conducted tutorials, prepared lab materials and supervised student projects in the following courses: Algorithms and Data Structures, Software Development, Artificial Neural Networks, and Software Engineering

Data Analysis Engineer University of Khartoum March 2016 to July 2016 Built a reporting tool for Sudani (the #2 largest telecommunications company in Sudan) sales distribution app. ? Wrote the tool in SQL and

scikit-learn with 2 engineers to support 5 types of reports: sales, distributions of points of sales, calculating the critical POS, the neat income and the network coverage percentage per area. ? Deployed the tool allowed the company to monitor their status between the competitors in term of sales, market share and network coverage, automated over 80% of the manual reporting. ? Collaborated with the core system designer (a third party contractor) to integrate the tool into the live system. Cofounder and Backend Developer Semicolon ICT March 2014 to March 2014 - Mar 2106 ? Implemented various back end projects using: PHP (with CodeIgniter framework), JavaScript, HTML and CSS, database management (MySQL, PostGresql) ? participated in business development unit by introducing new project ideas and improving models for the exciting ones. MOOCS 2013 to 2013 It is a traditional Sudanese game that was brought into the world of computer games.. ? Designed Developed the end-to-end game using Java/Swing. ? Wrote 3 different levels of difficulty (Legal, Algorithmic and Intelligent). Docam - Control Home by Face Recognition 2013 to 2013 built a system that controls home entrance by face recognition. ? Built the backend part in C++/OpenCV and deployed it in a microcontroller. ? Designed and developed a mobile application for the owner's phone as the main interface. The owner can also add new authorized persons through the mobile app. Electrical and Electronic Students Exhibition 2013 to 2013 <https://www.linkedin.com/in/alnouralharin/> Education MSc. in Computer Science University of Tennessee at Chattanooga - Chattanooga, TN 2019 to Present BSc. in Electronic Systems Software Engineering University of Khartoum 2010 to 2015

Name: Ebony Johnson

Email: edwardgibson@example.com

Phone: 6967671257