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Skills

COMPUTER PROGRAMMING

Python

Java

C++

C

INFORMATION / INTERNET TECHNOLOGY

Services(Apache,MySQL)

Design and Implementation of Websites

Android App Development

OPERATING SYSTEMS

Ubuntu

Microsoft Windows

Apple OS X

Fedora

Education

University for Development Studies   Sept. 2014 to Current
BS Medicine 2022

St Francis Xavier Minor Seminary   Aug. 2010 to May 2013
General Science
Gained mastery of mathematics, physics, chemistry and biology.

Employment

Sesi Technologies LLC   Kumasi, Ghana
R&D Software Engineer Intern   Feb. 2019 to Current
- Implemented the frontend and backend of GrainMate mobile application designed to help farmers in Africa reduce postharvest losses

EarlyFood Inc.   Kumasi,Ghana
Cofounder, CTO   Jan. 2016 to May 2017
- Designed a web application user interface using html, css, javascript and react.
- Implemented a php backend server that provided the application business logic

Savana Signatures   Tamale,Ghana
Android Developer   Sept. 2017 to Sept. 2017
- Developed a server-side data collection mobile application using an open source open data toolkit (ODK)
- Developed a form sharing functionality that enabled remote transfer and receiving of user data

Projects

EnergyOptim: A household energy analysis and predictive model   Nov. 2019 to Nov. 2019
- Featured engineered smart meter readings by data visualization and analysis, hourly resampling, fixed window size sampling and normalization
- Implemented a regression model with deep recurrent networks taking normalized window samples as inputs , to generate multiple sequence predictions representing the future multiple timesteps energy consumption rates.
-Developed a full-stack android app to render predictions and visualizations

StammerClipper::A deep learning approach for automatic stutter detection   June 2019 to Oct. 2019
Built an end-to-end trainable deep learning pipeline that takes stuttered audio input and performs automatic audio signal segmentation ,pre-processing and classification into fluent and stuttered speech. Applications include developing ASRs softwares that supports people with speech dysfluecies.

Radiological Image Classification and Captioning   Feb. 2019 to May 2019
- Created a tuberculosis classification pipeline using deep convolutional neural network
- Developed an image caption pipeline that combined latent features of chest x-ray scans with temporal representation of text medical annotations to generate word level sequences.

Magnetic resonance spectroscopy quantitation with deep learning   Apr. 2018 to Jan. 2019
- Transformed time-domain magnetic resonance spectroscopy signals into a scale-invariant frequency domain signals
- Combined a support vector decomposition algorithm to remove residual water signals with data point truncation in the pre-processing pipeline
- Utilized deep layers of convolutions to exploit spatially local correlations and hidden feature representations
- Developed an end-to-end trainable feature extraction filter that utilized strong spatially local correlations to learn relevant features of the signals and regress over the input signals

Awards

Nvida+Black in AI -Recipient of the 2019 NVIDIA GTC DC Conference Grant   Oct. 2019
Selected as a recipient of the 2019 Nvidia GTC DC conference full grant out of a large pool of applicants.

AJA.LA Studios -Deep Learning Indaba Travel Award Winner   Aug. 2019
Awarded to 1 promising researcher in Artificial intelligence in Africa to attend the prestigious deep learning Indaba research conference in Kenya ,out of a pool of 100s of applications.

Mathematics Inspired Science and Engineering -Ghana Mathematics Olympiad (GHAMO) 2013 Finalist   Apr. 2014
Awarded to the top of the young and exceptional mathematics talents in Ghana who rated highest in mathematics olympiad selection program.

Activities

Third Trimester Field Practical Program, University for Development Studies Team Lead   May 2014 to Aug. 2014
Team Lead in charge of researching and developing community needs and potentials profile to help the government of Ghana tailor resources efficiently.

Volunteering

Emerging Leaders in Engineering and Technology,Inc *Volunteer*   Aug. 2019 to Current
Accra
ELiTE is a community based youth development organization that utilizes STEM education as a vehicle to empower low-opportunity students to realize their academic and career potential. Since 2009, ELiTE has pioneered hands-on STEM and computer science programs in low-income communities throughout Africa, the Caribbean, Latin America, and New York City.

SuaCode Africa *Programming Facilitator*   Feb. 2019 to Apr. 2019
Accra
Teach programming lessons to students

Nsesa Foundation *Programming Facilitator*   July 2018 to July 2018
Accra
Teach programming lessons to university and high school students

Mathematics Inspired Science And Engineering *Northern Regional Lead*   Apr. 2015 to Current
Accra
In charge of conducting solve-A-thon mathematics challenge for 100+ talented high school students in the Northern part of Ghana

Aid Without Borders Ghana *Deputy Project Coordinator*   Sept. 2015 to Jan. 2017
Tamale
Organize and execute health outreaches to remote communities in Ghana