Alfred Mawutor Akligo

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR WITH ECONOMICS MINOR · UNIVERSITY OF GHANA

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About Me

An agilist and a test driven development craftsman. An Artificial intelligence, agile, computer vision & data science enthusiast.

Programming: C++/C · Python · Bash · Java · Dart · Android · R · Javascript · Visual Basic.Net · asm · SQL
AI   : OpenCV · Scikit-learn
Web   : HTML · CSS · Bootstrap
Hardware   : Arduino · Raspberry Pi
Frameworks : Flutter · Django · Spring Boot · Mockito · Swagger · ReactJS
Others : Java Codename One · mySQL · MSSQL · OracleDB · Linux · Git · Gitkraken · Bitbucket · Firebase ·SourceTree

Some Projects worked on

- A Point of Service System: A web app that facilitates records keeping of services rendered. It includes a mail daemon that filters, searches for specific data (service booking information) and reflects it in the web app. The booking information originates from a complementary website that interfaces with service customers.
- Blueprint: Blueprint is a system that facilitates members working on a project to work from remote geographical locations. I developed the mobile version of the system for Bsystems Limited.
- The Conduit: A desktop application that serves as a conduit between the market for fresh perishable goods and the rural area farmers cutting out the middlemen.
- Facial Recognition System: A deep learning model for facial recognition created with the help of sklearn (scikit-learn) to identify and classify faces seen in a video frame, be it a live stream or a pre-recorded video. It detects and recognizes faces in images.
- Vehicle Speed Control System using Persuasive Technology: An embedded based system that detects speeds of vehicles on roads, determines if the vehicle is speeding or not and persuades the driver to drive within the speed limit on that road.
- Text recognition with tesseract OCR: A program that detects and recognises texts in images using the tesseract OCR engine in images.
- A Custom Home Assistant using Snips: A raspberry pi system that has Amazon alexa and Google assistant installed together with a custom home assistant (chappie) built with snips.

Experience

Hawkman Labs   *Accra, Ghana*

SOFTWARE ENGINEER   *Nov. 2019 - Present*

GuardIT Global Limited   *Accra, Ghana*

SOFTWARE ENGINEER (Backend & Hardware)   *June. 2018 - July. 2019*

- Remote server scripting and maintenance via ssh. This involves developing scripts to obtaining server performance metrics, server monitoring, check certificates, developing scripts to set markers and alerts on server resources like disk space and CPU usage.

- Developing software programs for Raspberry-pi based hardware systems and documentation. This involves writing python programs for a raspberry microcontroller to communicate with the servers. Some of the programs collected network data on each hardware, check if there are any user interactions periodically. These information are all sent on a one way communication channel to the server for further computations and processing.

Internships

Bsystems Limited   *Accra, Ghana*

SOFTWARE ENGINEER INTERN   *June. 2016 - Aug. 2016*

- Tested several web applications developed to make sure there are no bugs present and work out all most all scenarios of the app usage and make sure its runs as intended.
- Querying and report generation on raw data to make sense and give new perspective to the data using OracleDB.
- Developed a software system (the mobile version) to enhance remote work to be done easily and comfortably by pooling the needed resources for a project to a central point as and when the user makes it available.Developed with Java Codename One.

Education

University of Ghana   *Accra, Ghana*

BACHELOR'S DEGREE IN COMPUTER SCIENCE (MAJOR) WITH ECONOMICS (MINOR)   *Sep. 2014 - May 2018*