3101 S. Taylor, Apt#1576         **ANDERSON BANIHIRWE**         (501) 352 -1221
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GitHub| LinkedIn| Website

## EDUCATION

| **Little Rock, AR** | **University of Arkansas at Little Rock** | **Fall 2014 – Spring 2018** |
|---|---|---|

- Bachelor of Science in (Computer) Systems Engineering with dual minor in Mathematics and Physics. **GPA: 3.87/4.00**
- **Relevant coursework**: C/C++ Programming, Algorithms Design, Database Concepts, Linear Algebra, Differential Equations, Calculus (I, II, III), Digital Systems, Computer Architecture, Operating Systems, Optimization Methods, Adv Microprocessor Sys, Communication Networks, Machine Learning (Coursera)

| **Online** | **Udacity** | **Jan 2017 – Dec 2017** |
|---|---|---|

- Self-Driving Car Nano Degree online certification
- **Relevant coursework**: Deep Neural Networks, Convolutional Neural Networks, Computer Vision

## EMPLOYMENT

| **Undergraduate Research Assistant** | **University of Arkansas at Little Rock** | **Feb 2016 – Nov 2016** |
|---|---|---|

- Worked with Professor Iqbal Kamran in EIT Systems Engineering Department. Research focused on classifying hand movement intent from the electromyography (EMG) signals recorded by surface electrodes positioned over eight lower arm muscles.
- Worked with BioPatRec tool (for MatLab) for EMG signals collection and pattern recognition
- Applied supervised machine learning algorithms namely Discriminant Analysis, SVM, Regression, Multilayer Perceptron for data analysis.

| **Software Engineering Intern** | **Rwanda ICT Chamber** | **May 2016 – August 2016** |
|---|---|---|

- Built a debt collection management system[code] for a local business.
- Helped to develop a RESTful API for a local business.
- Served as a mentor to kLab and FabLab Rwanda members.
- Prepared and selected learning materials for FabLab Rwanda members.

| **Ambassador for the College of Engineering and Information Technology (EIT)** | **University of Arkansas at Little Rock** | **April 2015 - Present** |
|---|---|---|

- Assisted with Freshman recruitment for the EIT.
- Tutored students in Engineering, Mathematics, and physics Courses.
- Managed a computer lab two hours a week.
- Led freshmen development programs.

## TECHNICAL EXPERIENCE

### Projects

- **Analysis of the Stack Overflow** (under development): Data Analysis based on Stack Exchange Data Dump. ~Python, SQLite, Matplotlib
- **Finding Lanes Lines on the road** [code]**:** used OpenCV python library to develop a pipeline that identifies lane lines on the road on a series of individual images and to a video stream. ~Python, OpenCV, Numpy
- **Visage** (under development)**:** An interactive application that performs face tracking and image manipulations on camera input in real time. ~ Python, OpenCV
- **InterviewPrep Guide** [code] [Webpage]: A preparation tool to technical interviewees in the field of CS. ~ D3.js
- **Aprrhaxis** [code]: A collision avoidance game. ~HTML, CSS
- **Bulletin Board App** [code] [Demo]: A simple bulletin board web application. ~ReactJs

### Languages and Technologies

- Python; C++; C ; MySQL; Linux Shell scripting; JavaScript; Git

## PROFESSIONAL ORGANIZATIONS

| Secretary | International Council on Systems Engineering(INCOSE) | **Spring 2016 - Present** |
|---|---|---|
| Member | ACM student chapter | **Fall 2015 – Present** |