

# AARIB ABDULLAH

## SOFTWARE ENGINEER

### CAREER OBJECTIVE

Looking for an opportunity to utilize and sharpen my skills further in software engineering. Also open to Back-End, Full-Stack, and Front-End related positions.

### HARD SKILLS

- Python 3
- Flask (RESTful services)
- curl debug tool
- SQLite3
- Amazon DynamoDB
- Java
- SQL
- NoSQL
- POSIX C
- C++
- Linux
- HTML
- Javascript
- AJAX
- ReactJS
- Data Structures
- Algorithms
- Operating Systems Concepts
- Android Software Development
- Object-Oriented Analysis and Design
- Agile Software Development Life Cycle
- Project Libre
- Microsoft Office
- RabbitMQ
- FFMPEG
- Shaka-Player
- DASH

### SOFT SKILLS

- Adapt to changing environment
- Quick Learner
- Strong work ethic
- Quick to respond to issues
- Problem-solver
- Creative and flexible when necessary

### CONTACT

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#### GitHub:

<https://github.com/Aarib-Abdullah>

<https://github.com/AaribAbdullah>

#### LinkedIn:

<https://www.linkedin.com/in/aarib-abdullah-30290811b/>

### WORK EXPERIENCE

#### RAYTHEON

Systems Engineer | Jun 2020 – Present

Aid in developing innovative solutions that meet war-fighter needs to support the EWS business area relating to Electronic Support and Electronic Attack capability development.

### RELEVANT EXPERIENCE

#### SHADOW STREAM

Technology: Python3, Flask, Docker, RabbitMQ, ReactJS, Javascript, HTML5, SQLite3, FFMPEG, Shaka-Player, DASH  
May 2020 – Present

A full-stack application, video streaming platform.

- Derived functional requirements which can then be translated to a service (micro-services)
- Found all the nouns/key-players of the system and designed Database schema accordingly
- Dealt with CORS implementation, allowing a script from a server request from another server in a different location, but only allows certain domains.
- Implemented Authentication and assigns a hashed cookie (session) to client browser
- Currently it is capable to render images, video, and other text messages.
- Implemented video-streaming (video-on-demand), only scripts from certain domains can be allowed to fetch/request video-stream (CORS policy)

#### BRAIN WAVE DATA PROCESSING

Technology: Python, Tensorflow, Keras, Numpy | Jan 2020 – May 2020

Research Project, working on image classification. Identifying road signs for fast-food chains. Depending on the emotional state of the driver, our system will ask the driver to take a break and go to the nearest identified restaurant.

- Utilizes Python 3 and TensorFlow to process images/video frame to identify restaurants nearby.

#### REDDIT\_CLONE

Technology: Python, Flask, JSON, SQLite3, Redis, DynamoDB, Foreman, Unicorn  
Jan 2020 – May 2020

Created RESTful APIs for posting and voting micro-services, similar to Reddit's operation for posting and voting.

- Designed Entity-Relationship model and relational model.
- Found the data access patterns to create a NoSQL table in DynamoDB for faster queries for posts and comments
- Used Redis to get quick access to voting data regarding a certain post
- Used functional partitioning to aid with efforts to scale horizontally
- Passed JSON data relevant to today's Reddit user

#### FAKE LANGUAGE PARSER

Technology: Python 3, Microsoft Excel | Nov 2018 – Dec 2018

A Compilers project for fake language. Can analyze syntax and execute fake language.

- Implemented a top-down parser method in Python 3
- Created Parsing Table in Excel and used 'openpyxl' module to read from Excel file
- With 'openpyxl' module, read in the rules, output a dictionary to be used for parsing

#### CALORIE IMAGE CLASSIFICATION

Technology: Java, XML, Python, Keras, TensorFlow, Android Studio  
Mar 2019 – May 2019

An Artificial Intelligence Project. Made Android App which can identify the food and output its nutritional values.

- Trained the model using Python for Image Classification
- Implemented camera, UI event handling, and used the model to classify the food

#### MYMAJEKS

Technology: C#, Microsoft Visual Studio, Azure Cloud

Mar 2019 – May 2019

Messaging Application project which sends messages through cloud between end-users.

- Implemented user status, message output/input, changing message channels with C#
- Create UI using Microsoft Visual Studio's GUI builder.

#### WAREHOUSE-WIZARD

Technology: Python 3, PyQT, JSON | Sep 2019 – Dec 2019

Tracks contents of a warehouse. Keeps track of the dimensions and coordinates of each items.

- Implemented item handling by using the existing items' dimensions and coordinates.
- Used JSON for data persistence

### EDUCATION

#### CALIFORNIA STATE UNIVERSITY - FULLERTON

Computer Science B.S. | 2016 – 2020

- GPA 3.5
- Dean's List