

# Ibraheem Saleh

MSCS Software Engineer & Automation Architect

## Overview

Cell : (909)244-2570

E-mail : iysaleh@gmail.com

Status : US Citizen

## Address

Location: Upland CA 91784  
LinkedIn: linkedin.com/in/ibraheem-saleh-35a5636a

## Education

**Highest Degree**

Masters of Science in Computer Science from California State Polytechnic University, Pomona

**December 2018**

**GPA: 4.0**

## Computer Languages & Software

Java (Proficient), VB.NET (Proficient), C# (Proficient), VB Scripting (Proficient), Python (Proficient), Robotframework (Proficient), Windows Batch Scripting (Proficient), C/C++ (Moderate), Node.js (Strong), Golang (Moderate), PostgreSQL (Proficient), MongoDB (Strong), STAF/STAX (Strong), Bash/Tcsh (Proficient), Solarwinds LEM (Proficient), JMS (Proficient), IIS (Proficient), Windows DNS (Proficient), WSUS (Proficient), OpenVPN (Proficient), GPO/AD (Proficient), Cybersecurity (Proficient), Windows (Proficient), Unix/Linux (Proficient), OSX (Moderate)

## Experience

### Jet Propulsion Laboratory Test and Development Engineer

### Engineering Applications Software Engineer I & II February 2015 - Current

- Designed and implemented a Robotframework based automated regression framework using a versatile "regenerate expect data" paradigm for expect data management for the AMPCS Mission Data Processing & Control System (AMPCS) software used in uplink and downlink telemetry processing.
- Created a JPL-Blackboard course for training new software test engineers to be able to develop automated tests and learn AMPCS software using a classroom-style, learn by doing exercises approach.
- Designed and implemented a test automation framework for the Deep Space Network (DSN) Messaging Service Products (MSP) subsystem to regression test Java Messaging Service (JMS) server performance and functional correctness using java, python, plot.ly, robotframework and jrobotremoteserver with an advanced stages paradigm to fluidly manage multi-host test orchestration.
- Wrote client applications against the JMS1.1 and JMS2.0 APIs to test new functionality of Fiorano 10.2.
- Authored testsuites and keywords using Robotframework with IBM STAF/STAX integration designed to automate multi-host subsystem regression testing of ground system software.
- Utilized syscall tracing (truss/strace) to diagnose low level failures and library incompatibilities of apps
- Compiled Firefox 31 and dependencies on the Solaris 10 SPARC platform to address security concerns
- Fulfilled Test Lead role for several major AMPCS releases, coordinating with managers, developers and testers to ensure that the best version of the software possible gets released.

### MeridianLink Admin Scripter and Systems Manager

### Junior Systems Administrator February 2014 – February 2015

- Wrote vbscript using NSS Tools to distribute the company SSL certificate to Firefox Trust Stores
- Maintained Moodle/Confluence servers and wrote SQL queries to help content managers understand global resource usage statistics, user creation information and other valuable data
- Setup a Windows Server Update Services server and wrote a monthly database maintenance script
- Mastered SolarWinds Log and Event Manager system and established notification and action rules to alert system administrators of important events and automatically take action when needed.
- Wrote a right-click context menu for ImageMagick for on-the-fly compression of images for the non-techie

### Cal Poly Pomona

### Undergraduate & Graduate Student

### CS, IT & Machine Learning Enthusiast

### September 2009-March 2013, March 2017-December 2018

- Published my Thesis, "Network Traffic Images: A Deep Learning Approach to the Challenge of Internet Traffic Classification" which experimentally proves that packet subflows, when rearranged in a 2D image-like structure and fed through CNNs, provide the best accuracy to date for QoS-based classification.
- Developed a cross-platform desktop Calendar application using golang with astilelectron (html & javascript) and a node.js server with a mongodb NoSQL backend.
- Implemented the Advanced Encryption Standard (AES) used by the U.S. Government according the Federal Information Processing Standards (FIPS) Publication 197