

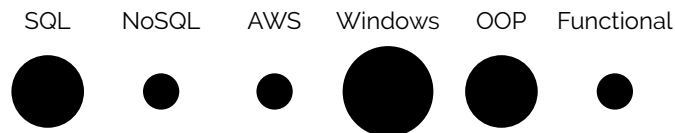
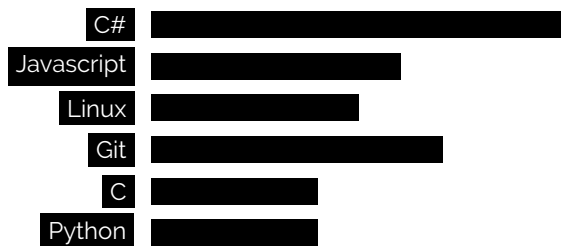
JOSHUA JACKSON

Software Engineer II

📍 Huntsville, Alabama
☎ +1 256 929 9093
✉ joshua.w.jackson@protonmail.com

WHO AM I?

I am a passionate technology geek seeking to push my skills and abilities to new levels. My career has exposed me to a broad range of technologies, and it has been a humbling journey. I love learning about practically any topic, and I thrive in environments where learning is a constant requirement. I'm currently focused on sharpening my low-level programming abilities and reducing the number of abstractions between myself and the bare metal.



EXPERIENCE

2012 – present

Software Engineer II

Cepeda Systems and Software Analysis

Full-Stack Desktop object-oriented application development providing aviation GIS mission planning capabilities for the Department of Defense.

- Created a WPF application for running tests in the production environment that generated a Software Test Report (STR) and Requirements Traceability Matrix (RTM) which significantly reduced testing time.
- Wrote and maintained a suite of over one thousand unit, integration, and end-to-end acceptance tests utilizing Microsoft Coded UI and the MSTest Framework.
- Authored a number of test documents including the Software Test Plan (STP), Software Test Description (STD), and participated in testability of analysis of the requirements.
- Refactored the design of a complex component so that unit tests could be written alongside the existing integration tests, which reduced the time required to fix defects when a new downstream build was produced.
- Fielded a REST web service for gathering user feedback during a test event on an isolated network, which reduced distractions and increased the quality of the feedback gathered during the event.
- Currently designing and implementing a safety-critical application in C++ (targeting Wind River Linux) that converts a vendor-neutral data format into the format required by the avionics.

C# / Visual Studio / Windows / Azure Dev Ops / C++ / Linux

Sept. 2018 – 2020 part time	Lead Developer Serverless web application for facilitating CMMI appraisals.	Cepeda Systems and Software Analysis
	<ul style="list-style-type: none"> • Architected the application using AWS for the back-end (Lambda, Cognito, S3, DynamoDB, API Gateway) and React+Bootstrap for the front-end. • Created scripts using the Serverless Framework and NPM for deploying the back-end and front-end automatically. • Integrated the project with Electron, which provided equivalent functionality as a Desktop application while reusing existing code. 	
	JS / React / AWS / Node.js / Electron / Git	

EDUCATION

2007 – 2012	Bachelor's Degree Computer Engineering - GPA 3.4	University Of Alabama in Huntsville
-------------	--	-------------------------------------

REFERENCES

251 616 0420	Ashley Sanders	Former colleague and collaborator
256 461 1210	Chase Marsh	Architect and Lead Developer - AMPS
256 603 3519	Tom Holt	Former Architect and Lead Developer - AMPS