Devon McDonald

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# Education

## Bachelor of science in Engineering |  louisiana state university

* Major: Computer Engineering
* Minor: Computer Science
* Current GPA: 3.70 on 4.3 scale or 3.50 on 4.0 scale
* Graduation date: May 2020
* Years attended: 2017-2020

# Skills & Abilities

## Computer science

* Experience with C++, JavaScript, Python, C# and MATLAB as well as OOD and operating systems.
* Knowledge of blockchain technology and working on project dealing with Ethereum.
* Familiarity with Agile software development and Azure DevOps.

## HDL and assembly languages

* Working knowledge of ARM assembly for the use of programming microprocessor systems and microcontrollers for hardware design as well as MIPS assembly.
* Experience with HDL Verilog and VHDL for the implementation of both sequential and combinational logic circuits.

## circuitry

* Ability to model, simulate and analyze circuits using circuit simulation software such as OrCAD Capture, PSPICE, Multisim, and physical circuit building.
* Design and implementation of combinational and sequential logic circuits using TTL devices, and HDL, CPLD or FPGA board.
* Ability to operate bench level test equipment such as oscilloscopes, function generators, multimeters, etc.

# Experience

## software Engineer | Dell technologies | 08/20 – present

* Worked on the performance engineering team utilizing scripting and NeoLoad to gather performance metrics of software and API endpoints.
* Developed internal tools to automate and streamline the processes involved in testing software using multiple technologies including ReactJS.
* Created and worked on CICD pipelines designed to automate the testing of software when code changes are made.
* Aided in defect troubleshooting utilizing TFS, Riverbed, and New Relic for error gathering and trace routing.

## Blockchain undergraduate researcher | LSU electrical engineering department | 01/19 – 05/20

* Worked on a project dealing with the Ethereum blockchain.
* Performed statistical analysis of the blockchain through various means for performance reporting.
* Worked on the front end of the project as well as the backend that utilized technologies such as ReactJS, NodeJS, Solidity, and Python.

## Engineering and scientific applications intern | chevron | 05/19 – 08/19

* Worked on the DOF (Digital Oilfield) team on implementing the particle swarm optimization algorithm into their IFM software.
* Did a PoC of the particle swarm optimization algorithm first in C# using the .NET framework and then implemented it into a visual workflow to integrate into IFM and change the GAP model variables to calibrate the risers of the Agbami oilfield.
* Was introduced into Agile development in which I attended daily stand ups, sprint planning meetings, and communicated with scrum master about sprint’s tasks and goals.
* Participated in Chevron summer Powerthon in which our group of six engineers developed an ITC onboarding app that streamlined the onboarding process through the low-code Microsoft PowerApps platform.

## Physics/calculus/computer science tutor | genesis tutoring & LSU Physics Department | 08/18 – 12/18 and 09/18 - 05/19 respectively

* Walk students through any issues they are having with their respective courses including Physics, Calculus, and Computer Science w/ C++.
* Help with topics such as derivation rules, implicit differentiation, L’Hospital’s rule, Integration techniques, relative minima and maxima to analyze function traits, fundamental programming skills, classes, methods, file streaming, data type parsing, etc.
* Assist in trouble shooting early C++ programming projects.