Adolfo Segura

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Education

Lander University, Greenwood, South Carolina
Computer Science 2013 - 2015 GPA: 3.1

Slippery Rock University, Slippery Rock, Pennsylvania
Computer Science 2015 - Graduating December 2017 GPA: 3.1

Bachelor of Science in Computer Science, December 2017
Significant Coursework: Algorithms and Data Structures, Software Engineering, Computer Organization and Architecture, Structured and Dynamic Web Programming.

Skills

- REST API's / krikkit /JAX-RS
- Parallel Programming with OpenMP
- Apache web server, Tomcat
- AWS / Bluemix / Azure
- **Libraries/Platforms:** Node.js, JQuery, Socket.io, AngularJS
- **Data/Databases:** SQL, MongoDB, Redis, JSON
- **Markup/Templating:** HTML, CSS, Jade

Languages

Proficient with: Java (5 years), Javascript , C#
Familiar with: Go, Ruby, Swift, Python

Projects

Framework for IoT
With the SDK of a few devices (Myo armband, Microsoft band, Xbox One kinect, Samsung Galaxy GearFit, V.BTTN), I used the Observer Pattern and a few APIs to develop a framework of software that sits on these devices that will automatically manage communication between them. The developer only needs to provide a little bit of code and this framework will take care of the rest.

Microprocessor Optimization for the IoT
Evaluated certain Internet of Things processors in edge computing and discussed what tradeoffs should be expected in micro-architectural optimizations that will enable the design of a good Internet of Things microprocessor architecture.

EEG controlled NAO Robot using Emotiv
I accomplished this by using the Emotiv SDK. Once the user logs in and connects to the Emotiv Cloud Client, a new thread is initialized which is instantiated with a new runnable that sets in motion the processing of EEG data. This is where I train and then map the data to the event that the NAO robot will execute. I also developed a GUI to show the headset sensors and used threads to draw the EEG lines. Languages Used: Java