Adolfo Segura

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EDUCATION

Lander University, Greenwood, SC 3.1 GPA
  August 2013 - May 2015

Slippery Rock University, Slippery Rock, PA 3.1 GPA
  August 2015 - December 2017

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

PROJECTS

Framework for IoT —

Analyzed, designed and Implemented a framework of software that sits on several IoT devices that automatically manages communication between them. Our team of 3 students each evaluated certain SDKs and developed a object-oriented solution using the observer pattern. Devices: Myo armband, Microsoft band, Xbox One kinect, Samsung Galaxy GearFit, V.BTTN. Languages Used: Java

Invoicer Application —

Developed a complete MEAN stack Invoice application from scratch. Technologies Used: MongoDB, Express, Angular2, Node.js

EEG controlled NAO Robot using Emotiv headset —

Restructured complex technical information and thoroughly designed a program that processes real time EEG data and maps it to an NAO robot's actions(walk left, right, forward or reverse). The more the user trains each action, the easier it is for the robot to recognize and execute the actions. Finished off by developing a GUI using WindowBuilder that utilizes the concept of multithreading to draw each EEG line simultaneously. Languages Used: Java.

Catalog Application —

Designed and implemented a REST API catalog application. Technologies Used: Node.js, Express, Mongojs and RestEasy

Microprocessor Optimization for the IoT —

Evaluated certain Internet of Things processors in edge computing and discuss what tradeoffs should be expected in micro-architectural optimizations that will enable the design of an efficient IoT microprocessor architecture.

Web template store —

Developed a simple AngularJS web template sales application. Streamlined the payment process using PayPal for quick and easy checkouts. Utilized Angular-Route for custom routing and http service to fetch information from a .json file.

SKILLS

- REST API's / krikkit /JAX-RS
- Apache web server, Tomcat
- AWS / Bluemix / Azure / GCloud
- **Libraries/frameworks:** Node.js, JQuery, Socket.io, AngularJS, Angular2, Bootstrap
- **Data/Databases:** MySQL, NoSQL, MongoDB, Redis, JSON,
- **Markup/Templating:** HTML, CSS, Jade

PROGRAMMING LANGUAGES

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

AFFILIATIONS

- Slippery Rock University Men's Soccer
- Lander University Men's Soccer

OTHER PROJECTS

Facebook Application —

Developed an app that uses Facebook's Graph API to utilize Facebook authentication as well as gets user information, fetches posts and creates posts. Technologies Used: **Angular-seed**, which is an application skeleton for a typical AngularJS web application. **ngFacebook**, which is an Angular service to handle facebook.