Mark S. Melendez

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SKILLS

Programming Languages

- C#
- PHP
- C
- Java
- Python
- JavaScript
- Dart
- MATLAB
- Wolfram Language

Frameworks, Libraries & Databases, and hard skills

- Spring MVC
- Node
- ASP.NET - MVC
- AngularJS
- VueJs
- React
- Backbone
- Liferay
- MySQL
- Oracle
- MongoDB
- Redis
- Elaticsearch
- Flutter
- Nativesrcipt
- GraphQL
- Numpy
- Pandas
- Jupyter
- ND4J
- Kubernetes
- Cloud Integration
- Heroku
- JHipster - Microservice Architecture
- VueJS

- Apache Spark
- AWS
- Azure
- Azure Functions - Serverless Architecture
- Lambdas - Serverless Architecture
- DICOM and Advanced Imaging
- Android

Software Development and Experience

- Agile development
- SCRUM

LANGUAGES

- English
- Spanish

Active Secret Clearance

EXPERIENCE

INCURSUS Technologies LLC, Orlando FL — *Self Employed*
Aug 2017 – Present

ITEC - KIOSk
I developed an Android application for ITEC Entertainment.
- Android
- Java

VIP - DICOM PACS
I created a Java DICOM PACS server and web application. This server stores, indexes, and analysis DICOM data, while the web app makes statistics and medical imaging data available through a modern UI/UX.
- DICOM
- Java Plugin Architecture
- Serverless Architecture
- Azure Functions
- Azure
- VueJS

USC PATCH APP
I created a Java Spring application that updated our clients QuickBooks Online inventory items based on their WASP InventoryCloud inventory. I leveraged the QBO and InventoryCloud APIs to create a bridge

between the two SaaS solutions.

- Spring MVC

USC & Me Mobile APP
I created a Flutter Mobile App for our client USC. Which allows their customers to schedule appointments with technicians.

- Flutter
- Dart
- JHipster
- Java Spring
- Mongo
- Firebase
- Angular

Cole Engineering Services Inc, Orlando FL — *Software Engineer*
Nov 2017 – Mar 2019

PROTEUS
I was a software developer for DARPA'S Prototype Resilient Operations Testbed for Expeditionary Urban Scenarios (PROTEUS) TA3 contract. Which is a parametric data service that stores models and tactics, techniques for simulation purposes.

- Spring MVC
- AngularJS
- MongoDB
- Elaticsearch
- Nativesrcipt
- GraphQL
- Numpy
- Pandas
- Jupyter
- ND4J
- Kubernetes
- Cloud Integration
- Python
- C++
- JavaScript
- Java

OneSAF
I was a software engineer working on the Army's OneSAF contract "OneSAF is a next-generation, entity-level simulation that supports both Computer Generated Forces and Semi-Automated Forces applications."(PEOSTRI)

- Linux
- Java
- Node
- JavaScript
- Java

INCURSUS Suppliers, Puerto Rico
April 2017 - Present

I was a founding member of INCURSUS Suppliers, a drop shipping company that sold sportswear. I worked on logistics and product acquisition.

Imagine Believe Realize, Orlando FL — *Software Engineer*
June 2016 - April 2017

While working in IBR I was a U.S Navy contractor and worked on the 'My Navy Portal' (MNP) contract. MNP is the Navy's human resources portal for all Navy men around the world. I worked on MNP as a full stack developer. As an engineer in the project I was part of an Agile semi-remote environment, therefore I am well versed in Agile/SCRUM development.

- Liferay
- MySQL
- Oracle
- JavaScript
- Java

EDUCATION

University of Central Florida, Orlando FL — *B.S. Mathematics*
2013-2016, GPA: 3.6

I majored in Mathematics with a concentration in computational mathematics.

Valencia College, Orlando FL — *Associate of Arts*
2011-2013, GPA: 3.9

I obtained my Associates from Valencia College with a focus in mathematics. Furthermore, I was part of the Phi Theta Kappa honor society.

PROJECTS INCLUDE

VIP - DICOM PACS
We created a Java DICOM PACS server and web application. This server stores, indexes, and analysis DICOM data, while the web app makes statistics and medical imaging data available through a modern UI/UX.

USC & Me Mobile APP
We are creating Flutter Mobile App for our client USC. This allows their customers to schedule appointments with technicians and track their locations.

USC PATCH APP
We created a Java Spring application that updated the our clients QuickBooks Online inventory items based on their WASP InventoryCloud inventory. We leveraged the QBO and InventoryCloud APIs to create a bridge between the two SaaS solutions.

PROTEUS
DARPA'S Prototype Resilient Operations Testbed for Expeditionary Urban Scenarios (PROTEUS) TA3 contract. Which is a parametric data service that stores models and tactics, techniques for simulation purposes.

OneSAF
Army's OneSAF contract "OneSAF is a next-generation, entity-level simulation that supports both Computer Generated Forces and Semi-Automated Forces applications."(PEOSTRI)

Patch App
This is an application I created for a customer and it bridges his inventory cloud-based software to his Quickbooks Online. For more details please ask me.

My Navy Portal (MNP) — *U.S Navy Contract*
U.S Navy's human resources portal MNP is a large scale online platform that allows Navy men worldwide to plan their retirement, seek out information about their education options, reserve educational rooms in different military bases, and more.

GPS Positioning Algorithms — *Open Source Research*
The available code on GitHub uses satellites as reference points and known info to locate a user on Earth. Two methods to solve for the user's location. [Found on GitHub]

- MATLAB

Sine-Gordon Numerical Solutions — *Open Source Research*
Numerical solution of the Sine Gordon Equation, the special analytical solutions are presented, we solve for the "Kink-Kink-Collision" soliton solution through the use of a hybrid scheme composed of the Lax-Wendroff scheme for the first time step and the [Box-Scheme, Crank-Nicolson-Scheme] for the remaining time steps. We utilized Dirichlet boundary conditions and a given initial condition. [Code found on GitHub]

- MATLAB

Fractal Image Generator — *Open Source Research*
Generates a fractal image based on complex analysis and numerical methods. [Found on GitHub]

- MATLAB

Glaucus
I and a colleague did research in soft robotics and created the silicon-based Glaucus robot after building our own 3D printer through the use of a startup kit. Thus, I have experience with an embedded systems, robotics, and 3D printing.