Derek Diaz Correa

Software Developer

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Software Developer, nerd and a massive fan of new and shiny technologies.

Experience

Plus One Robotics / Senior Web Developer
SEPTEMBER 2020 - PRESENT, San Antonio, TX

As a Senior Web Developer, I was put in charge of supporting and implementing new capabilities for Plus One Robotics Yonder Cloud Platform. Yonder is a cloud platform used to manage large amounts of automated robots that use Computer Vision and AI to handle many tasks. Every time a robot does not know how to proceed with its work, it sends a request to Yonder Cloud that in response Yonder Cloud sends new instructions back to the robot on how to proceed.

During my time at Plus One Robotics I was able to do the following:

- Designed and Implemented a user management system that allows users of the cloud platform to be able to do self-service of many tasks that used to be done manually by the development team.

- Lead, Design and Implement a brand new metrics infrastructure for the whole company by standing up the Elastic Stack and integrating the Yonder Cloud platform with Elastic, providing our business partners with the ability to be able to see real-time data of all the robots in the field for the first time.

- Designed and Implemented new capabilities for Yonder Cloud that allow robots to be able to handle different scenarios for depalitazion.

- Manage all the scrum ceremonies and refine all the work that is on the pipeline for the Yonder Team.

- Implemented Kibana dashboards are used by many of our clients.

Technologies used:

Javascript, ReactJS, Redux, GraphQL, Docker, Kubernetes, Elastic, Kibana, NPM/Yarn, Git, Gitlab Pipeline CI, Google Cloud, Jest, Postman, CSS, HTML5, MongoDB.

USAA / Software Development Engineer I
JANUARY 2014 - PRESENT, San Antonio, TX

During my time at USAA I was able to do the following:

- Worked on the creation of USAA's next-generation advice platform that gives members financial advice tailored to their specific needs.

- Lead, Design and Implement with my team a fully customized web application using HTML5, Bootstrap, REST Services, JavaScript and Salesforce from concept to production.

- Designed and Developed multiple front-end solutions for the Advice area using the latest software stack at USAA.

- Brought in the Cypress Functional Testing library to USAA and set it up to work with USAA Systems. Became the Cypress subject matter expert for the whole company.

- Implemented dashboards and tools that use the monitor systems in production and are able to detect issues before they cause an impact.

- Implemented and improved USAA Advice tools and USAA Life Insurance applications that used Apache Wicket, YUI, WebSphere and Java.

- Developed internal tools to help our business partners with their daily tasks.

Technologies used:

Javascript, ReactJS, Redux, Docker, OpenShift, Salesforce, Splunk, NPM, Git, Gitlab Pipeline CI, UrbanCode Deploy, Java, Selenium, Chai/Mocha, Cypress, qTest, CSS, HTML5, Sharepoint, DB2.

Past Titles:

Software Developer and Integrator III - January 2014 - February 2016
Software Developer and Integrator II - February 2016 - May 2017
Software Development Engineer I - May 2017 - Present

Awards:

USAA Innovation - IoT Parking Challenge - 1st Place - May 21, 2015
USAA Innovation - Post Military Members Design Challenge - October 26, 2015

Scienteer / Co-Founder and Developer
APRIL 2015 - NOVEMBER 2019, San Antonio, TX

While working on the startup we created the online platform Scienteer from the ground up. Scienteer is an online science fair platform that helps and simplifies the work that students, teachers and fair administrators have to go through in order to participate in science fairs. This platform is made with the intention of increasing the participation of our students in STEM projects since the number of participants was decreasing over time due to how complex the process was. At the same time our goal was to give all the students equal opportunities to be part of the science fair regardless of backgrounds by making this platform completely free. Right now this platform serves multiple states and currently has more than 70,000 students using it.

Technologies used:

PHP, Bootstrap, Apache, MySQL, Ionic, Angular, jQuery, CSS

Tesoro Corporation / Intern - Enterprise Architecture - Mobile Web Applications Developer
FEBRUARY 2013 - DECEMBER 2013, San Antonio,TX

- Created the company's first mobile application for iOS, Android and Windows 8 that allowed employees for the first time to be able to access company resources from their mobile device.

- Multiple dashboards and tools for the Enterprise Architecture team.

Technologies used:

Android, Java, C#, XCode, Bootstrap, jQuery, CSS, ASP

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xRM Group / Software Developer II

FEBRUARY 2012 - JUNE 2012, Caguas, PR

- Created the company's website that adopted Microsoft's Metro Design Language.

- Created Silverlight plugins for a Microsoft Dynamics CRM instance designed and tailored for schools.

- Designed an Android tablet application that allowed students to complete daily quizzes tailored to their classes.

Technologies used:

Android, Java, C#, Dynamics CRM, Silverlight, jQuery, CSS, ASP

INDUNIV Research Consortium / Web Developer

MARCH 2009 - AUGUST 2011, San Juan, PR

- Designed and developed multiple web applications that gave the company online visibility to the different clusters they manage.

- Deployed G-Suite to the whole company, replacing their existing Microsoft Exchange system.

Technologies used:

PHP, Cpanel, MySQL, CSS, jQuery, Flash, Photoshop, Wordpress, Joomla, GSuite

Education

The University of Texas at San Antonio / Masters of Science - Computer Science

AUGUST 2012 - MAY 2015, San Antonio, TX

The University of Puerto Rico - Bayamon / Bachelors in Computer Science

AUGUST 2007 - MAY 2012, Bayamon, PR

Side-Projects

- Level 2 Self-Driving Pickup - I have turned my Pickup truck into a Level 2 Self-Driving Vehicle by modifying OpenPilot to support my truck.
- Parranda Boricua for Android and iOS - This is a seasonal app I work on every year. Currently it has 100,000+ downloads.
- 3D Printing.

Languages

- Completely fluent in English and Spanish