

Derek Diaz Correa

Software
Developer

210-803-1216
derek.diaz@protonmail.com
derek.diaz@outlook.com
<https://derekdiaz.dev>

I'm a Senior Software Engineer with over 10 years of experience with a proven track record of successfully architecting, developing, maintaining and supporting a wide range of systems.

My passion for technology extends beyond my professional life, as I frequently work on personal web and mobile projects in my free time to stay current with the latest advancements and trends in the industry. This passion has led to the development of many innovative and engaging applications, and I am constantly looking for new and exciting opportunities to continue learning and growing.

Experience

Plus One Robotics / Tech Lead & Senior Web Developer

SEPTEMBER 2020 - PRESENT, San Antonio, TX

During my tenure at Plus One Robotics, I made significant contributions to the company's success.

One of my key accomplishments was re-architecting Yonder, one of the company's flagship products, by converting it from a single-node application to a fully scalable microservice architecture. I also led the design, development, and implementation of new features for Yonder, as well as providing customer support and cloud operations support.

Another major accomplishment was designing and implementing a new metrics infrastructure for the entire company using the Elastic Stack, and integrating the Yonder Cloud platform with Elastic, allowing business partners to access real-time data of all robots in the field for the first time. At the same time I implemented Kibana dashboards that are used by business partners and customers to view live robot data from one place.

I also led all scrum ceremonies and refined all pipeline work for the web team.

Lastly, I also created internal tools to automate manual processes, such as a tool that allows employees to download robot request images from Google Cloud Storage and Kubernetes Persistent Volumes while querying Elastic to see what images are available.

Through my efforts, I played an instrumental role in driving the growth and success of Plus One Robotics.

Technologies used:

Javascript, ReactJS, Redux, GraphQL, Docker, Kubernetes, Elastic, Kibana, NPM/Yarn, Git, Gitlab Pipeline CI, Google Cloud, Jest, Postman, CSS, HTML5, MongoDB, OpenSearch, Helm, Docker Compose, Bash, Ubuntu, AWS Route 53, Microsoft Teams Webhooks, Minikube, Typescript, OpenSSL, Google Kubernetes Engine (GKE), Google Cloud IAM, Google Cloud Storage (GCS), Google Identity Platform, Elastic Cloud, MailGun

USAA / Software Development Engineer I

JANUARY 2014 - SEPTEMBER 2020, San Antonio, TX

During my tenure at USAA, I made significant contributions to the development of the company's next-generation advice platform. This innovative platform provides financial advice tailored to the specific needs of each member.

I served as the lead designer and developer for a fully customized web application utilizing HTML5, Bootstrap, REST Services, JavaScript and Salesforce, from concept to production. Additionally, I designed and developed multiple front-end solutions for the Advice area, utilizing the latest software stack at USAA.

I was instrumental in bringing the Cypress Functional Testing library to USAA and establishing it as a company-wide standard. I also became the subject matter expert for Cypress within the company.

To enhance the company's production monitoring capabilities, I implemented dashboards and tools that detect issues before they cause an impact. Additionally, I made improvements to USAA's Advice tools and USAA Life Insurance applications, utilizing technologies such as Apache Wicket, YUI, WebSphere, and Java.

I also developed internal tools to assist business partners with their daily tasks, further improving their productivity.

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 - Best Design - October 26, 2015

Scienteer / Co-Founder and Developer

APRIL 2015 - NOVEMBER 2019, San Antonio, TX

As part of a startup team, I played a key role in the creation of the online platform, Scienteer. This platform is designed to simplify the process for students, teachers, and fair administrators to participate in science fairs. With the goal of increasing participation in STEM projects, as well as providing equal opportunities for students of all backgrounds, the platform was developed from the ground up. The platform is completely free and currently serves multiple states, with more than 70,000 students utilizing it. Our efforts have led to the success of Scienteer, and continue to make a positive impact on the education and STEM community.

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

As a member of the Tesoro Petroleum Enterprise Architecture team, I was responsible for a number of key initiatives that helped drive the company's success. One of my major accomplishments was the development of the company's first mobile application for iOS, Android, and Windows 8 platforms, which enabled employees to access key resources from their mobile devices for the first time. I also played a critical role in the creation of HTML5 Dashboards and tools for the Enterprise Architecture team, which helped to streamline processes and improve overall efficiency.

Technologies used:

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

xRM Group / Software Developer II

FEBRUARY 2012 - JUNE 2012, Caguas, PR

While working for xRM Group, I was able to make significant contributions to the company's digital presence and offerings. Among my accomplishments were the creation of the company's website, which was designed in accordance with Microsoft's Metro Design Standards. Additionally, I developed Silverlight plugins for a Microsoft Dynamics CRM instance, specifically tailored for schools. Furthermore, I designed an Android tablet application that enabled students to complete daily quizzes, customized to align with their respective classes.

Technologies used:

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

INDUNIV Research Consortium / Web Developer

MARCH 2009 - AUGUST 2011, San Juan, PR

During my tenure with INDUNIV Research Consortium, I made significant contributions to the organization's digital presence and infrastructure. I successfully designed and developed 5 websites from the ground up, which effectively increased the company's online visibility across the various clusters they manage. Additionally, I implemented G-Suite, a powerful productivity suite, throughout the organization, which resulted in the replacement of their existing Microsoft Exchange system. These efforts have positively impacted the organization's overall efficiency and effectiveness.

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

Side-Projects

- Parranda Boricua Cloud - Brand new version built from the ground up to be a Progressive Web Application that lives in CloudFlare.
- 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.

Certifications

- Certified ScrumMaster (CSM) - ID 1310994

Languages

- Completely fluent in English and Spanish