

Pedro Diaz  
34 Hemingway Court  
Trabuco Canyon, CA 92679  
pedroadiaz@gmail.com  
(949) 525-3149

### Summary

- Full Stack Developer with over 20 years of overall experience
- 5 years of experience with front end frameworks, React and Angular
- Backend experience with C# and Node.js
- Extensive experience in deploying cloud-based solutions using AWS technologies like Lambda, DynamoDB, and API Gateway.
- Demonstrated skills in modernizing legacy systems and developing scalable web applications.
- Agile team leader with expertise in several methodologies including Scrum, Kanban, and SAFE.
- Certified AWS Developer with deep knowledge in various AWS services including Lambda, DynamoDB, S3, Cognito, Route53, SNS, IAM, and CloudFront.
- Proven track record of managing complex projects and leading engineering teams to success.

## **Other Projects**

### Ask My Files Now

#### Full Stack Developer

- Created the website using React and integrated with Auth0
- Using Langchain to convert PDFs to text documents and then break it down into more manageable chunks to read into Pinecone
- Using the Pinecone Node.js packages to query data from the PDFs based on user prompts
- Using the OpenAI APIs to convert the user prompt to vectors to query Pinecone.
- Wrote the backend in Node.js deployed to AWS Lambda and API Gateway, using DynamoDB to store non-vectorized data. Also using S3 to store the files that are uploaded.
- This project is still in development.

### Museums with Kids

#### Full Stack Developer

June 2023 – July 2023

- Used React as a front end written with Typescript, integrated with Auth0 and Stripe
- Used Midjourney AI engine to generate images of cities, cultural centers and art.
- Used OpenAI Chat Completion API to create children's stories about each object (cities, cultural centers and art)
- Integrated with Auth0 for authentication and Stripe for payments
- Created the backend using Typescript/Node.js hosted on AWS using API Gateway and Lambda
- Database is using DynamoDB

### Earth Day Critically Endangered Species NFT

#### Full Stack Developer

April 2023 – May 2023

- Created a React as a front end and Typescript/Lambda to build API to show more detail on each species. Used DynamoDB as a backend
- Used Midjourney AI engine to generate images of animals to be used as NFTs

- Used OpenAI Chat Completion API to create description for each endangered species

## Employment

### General Dynamics Information Technology

Full Stack Developer

June 2023 - present

- Working on project to migrate from legacy system.
- Created Node.js/Express backend APIs using OracleDB and PostgreSQL.
- Wrote prototype using GraphQL
- Helping with the Angular front end to add functionality to the application
- Analyzed Java legacy application to extract business rules and functionality

### Kixie.com

Full Stack Developer – Node.js/AWS Specialist

March 2022 – June 2023

- Integral part of the Engineering team, working with React and Node.js to add functionality to their existing application as well as fixing bugs
- Leveraged AWS technologies such as API Gateway, DynamoDB, and RDS (MySQL and Aurora) to deploy robust, scalable systems.
- Actively involved in maintaining and improving the React-based with Typescript front end consumer-facing portal.
- Utilized AWS services such as S3, SQS, and AppSync with GraphQL to enhance application performance and functionality.

### A.Team

Senior Software Engineer – Node.js Expert

Aug 2021 – June 2022

- Part of backend development team using Node.js for the Integrations Team.
- Built APIs using Nest.js and Express with Typescript, employing MongoDB as a backend via Docker.
- Helped maintain GraphQL endpoints using Typescript/Node.js

### Onica/Rackspace

Senior AWS/Node.js Software Engineer

Jan 2020 – Nov 2021

- Node.js with Typescript development for clients on AWS
- Project based development
  - Developed customer solutions on AWS using Node.js on AWS Lambda and API Gateway deployed with the Serverless Framework
  - Worked on diverse projects, including AWS Lambdas using .Net Core integrated with AWS SQS, S3.
  - Migrated Express, React, and MongoDB applications to incorporate Auth0 authentication integrated with AzureAD and GSuite.
  - Worked to modernize a VB.Net application from .Net Framework 4.0 to .Net Core 3.1
  - Created APIs using C#/.Net Core 3.1 on API Gateway/Lambda writing to Amazon Aurora
  - Developed APIs using Typescript/Node.js deployed to API Gateway/Lambda via the Serverless Framework to interact with data from FHIR/HL7 APIs

### Capital Group

## Senior Software Engineer

Jan 2019 - Jan 2020

- Acting lead developer for backend team to migrate legacy system to new architecture.
- Mentored junior developers. Discussed project timeline and roadmap regularly with product owners and subject matter experts. Interacted with architecture team to ensure we met high quality of code.
- Use .Net Core to develop Restful services (Web API) using SQL Server as a backend
- Use Entity Framework Core, AutoMapper and XUnit together with Moq to run create unit tests

## UCI

### Senior Software Engineer

Oct 2017 - Jan 2019

- Working on project to migrate from legacy system.
- Identify data issues, data discrepancies, transforming and migrating data to new data structures.
- Assist in database design adhering to best practices
- Working on C# project that reads data from APIs and populates database using Entity Framework, Repository Pattern, Dependency Injection.

## Kelley Blue Book

Irvine, CA

### Senior Manager, Software Engineering

Aug 2015 - August 2017

### Manager, Software Engineering

Aug 2012 – Aug 2015

### Lead Software Engineer

Jan 2010 – Aug 2012

### Senior Software Engineer

Jan 2008 – Dec 2009

### Software Engineer

April 2007 – Dec 2007

- As a manager at Kelley Blue Book, I led a software development team of several people at all stages of the software development life cycle through several projects. Our application was the source data system for most of the vehicle data on KBB.com, therefore, most projects that needed to modernize our data started with us. Started with project inception where we discuss the new data, new business rules, changes to the UI and how data would be entered and reviewed, changes to existing operational processes and also changes to system processes with business users, subject matter experts and other power users. Would come up with a project timeline with user acceptance testing, integration testing and deployment and communicate this to all affected teams when it was ready so that they were aware when any changes would affect them (and also communicate any changes to the timeline). Would come up with a UI design with the users with our guidance and as we developed, giving them early releases so that they could preview the changes and give us feedback early. We would also design the database, application logic and new system processes not related to the UI, such as ETL processes that fed data to our data warehouse our consumed data that was displayed in the application and how that would fit within the other system processes with minimal impact to other teams. Finally, since our system had many touch points and teams involved, both technical and non-technical, we implemented UI testing, data testing, component testing, user acceptance testing and integration testing with the other technical teams to make sure that our systems integrated correctly.
- Implemented continuous integration, regular code reviews as part of the QA process.
- Modernized our branching strategy
- Led the team using different agile methodologies: scrum, kanban and scaled agile framework (SAFE).
- Performed regular reviews with the users and retrospectives with the team for continuous improvement
- Performed regular one on ones giving them regular feedback on their performance
- Also worked with developers to create development plans which was required by the company,

on areas they wanted to focus on improving.

- Worked on the Vehicle Information Management System (VIMS). Helped with all aspects of the system from the WPF front end to the SQL server back end. Involved in all aspects of the Software Development Lifecycle from assisting in design, development and implementation.
  - This application is written in C# using WPF. It relies heavily on principles of Object Oriented Design and Design Patterns. It has several logical tiers including a data access layer, business layer and a presentation layer.
  - The application uses a SQL server 2008 database. The table structure is highly normalized and uses stored procedures and user defined functions. Have extensive experience performing database optimization.
  - Wrote and maintained reports written using SQL Server Reporting Services.
  - Wrote and maintained SSIS packages used to transfer data to and from the application to other servers including a data warehouse system.
  - Maintained a WCF application used to consume the data in the system.
- During the VIMS Phase 2 Data Conversion Project, I lead a team of up to 6 developers and 2 QA to successfully implement a one year project that, at the time was the company's number one priority. The project was completed on time and without major incidents.
- Was among a group of three managers who started the "Innovation Labs" within Kelley Blue Book to foster innovation from anyone within the company. Worked to further several projects including VR, 360 video and photography as well as helped others with their projects.
- Participated in the first class of the Mentorship Program designed to improve the leadership skills for the future leaders of Kelley Blue Book.
- Actively participate in the Agile Council: a group of volunteers who support the use of Agile Practices in Kelley Blue Book.

#### Local.com

Senior Developer

Irvine, CA

Nov. 2000 – April 2007

- Five years of extensive experience with .Net with development of ASP.Net applications and Windows Services. Many of these applications interact with MSMQ and SQL Server 2000 as well as SQL 2005.
- Involved with all aspects of the development process. Assisted project managers with requirements gathering. Designed, implemented and tested whole systems as well as participated in teams that design, implement and test software systems.
- Primary developer responsible for maintaining current ASP site with a SQL Server 2000 backend.
- Principal liaison between stakeholders and users, responsible for obtaining software requirements and troubleshooting application.

#### Equative.com

Web Developer

Irvine, CA

Jan. 1999 – Nov. 2000

- Developed web-based software used for time and project management. Integrated ASP, DHTML, JavaScript in a cross platform web based application.
- Responsible for administering IIS 4 and 5, SQL Server 7 and Windows NT 4 and 2000 (setting up a domain and proxy server, as well as managing the website).

### **Freelance Experience**

Sure, Inc  
Developer

Washington DC  
March 2019 – Nov 2020

- Built web application hosted on Azure
- Front end created using Angular 7 using material design. Deployed on Azure Blob Storage
- Middle tier using ASP.Net Core Web API. Hosted on Azure App Services
- Backend was using Azure SQL Server
- Authentication using Azure AD

ITechZen  
Developer

Seattle, WA  
Oct 2018 – Dec 2019

- Front end created using Angular 5 using material design. Deployed on AWS S3
- Built web application hosted on AWS
- Middle tier using ASP.Net Core Web API. Hosted on Lambda using API Gateway
- Backend was using DynamoDB

## **Education**

University California, Irvine  
Bachelors of Science, Physics, 1994