Jamale Benitez Porch

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Skills | AWS, Cloud, C, CSS, Docker, Embedded, Git, HTML, JavaScript, Linux, Machine Learning, Python, SQL, Spanish, Solidity, Smart Contracts (ISCP), VMware

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Work Experience

April 2021 – August 2021 | **State Farm** | Claim Associate - Initial Loss Reporting   Richardson, Texas

- Communicated with several claimants through different communication channels including telephone, mobile applications, and internet reporting.
- Gathered and documented sensitive loss information in a timely manner for expediated routing to the proper claim specialist team
- Handled a large volume of incoming claims working within a team environment to ensure expediated claims processing

May 2019 – May 2020 | **AI4Networks** | Intern Researcher   Tulsa, Oklahoma

Machine Learning Approach for Automatic Fault Detection and Diagnosis in Cellular Networks. Publication link: https://www.ai4networks.com/files/conferences/c-20- 4.pdf

- Tasked with improving the accuracy of cellular fault diagnostics over prior work established in this lab utilizing machine learning.
- Uncovered key features used by machine learning algorithm for diagnosis.
- Coded all scripts in python to preprocess data, conduct experiments, and construct machine learning algorithms.
- Conducted research that allowed for a novel approach that increased accuracy of fault diagnostics over previous papers in the lab by 4% and presented the results at BlackSeaCom 2020 conference.

Projects

Number Labeler

A cloud-based web application that attempts to predict a number drawn by a user.
Link: https://ticket2andromeda.github.io/numpredictor/

- Self-motivated project that demonstrates connectivity between a JavaScript client, and AWS resources such as IAM, Lambda, SageMaker, and State Machine using API Gateway.
- Constructed a serverless backend using python lambda functions. Script ability includes having the capability to preprocess data sent from client as well as facilitate the creation and termination of other AWS resources.
- Met budgetary constraints and while simultaneously making an available application, deployed automated system using AWS Step Functions to spin expensive endpoints at user request while automatically terminating after several minutes. This process saved over $500 each month, which would be needed to have the project fully online.

Student Design Project | August 2018 - May 2019

- Machine learning speech recognition on a low-performance microcontroller.
- Student engineer tasked with gathering voice samples of specific Spanish commands. Successfully polled 100 students in 3 weeks producing 1000's vocal samples to train our algorithm.
- Coded and trained depth-wise convolutional neural networks in python to recognize Spanish commands achieving accuracies over 92% producing sufficient weight and model parameters to be passed to the hardware team.

Certifications

- AWS Solutions Architect Associate, June 2020 - June 2023

- Texas Certified All-Lines Adjuster, February 2021
- FAA – Certified Private Pilot VFR, October 2013

Education	B.S. Electrical Engineering, The University of Texas at Dallas, August 2014 – May 2019