Nicholas Paz

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Software engineer interested in Automation, CI/CD, and Backend Development. Passionate about solving challenging problems and learning new technologies.

EXPERIENCE

Teradata, San Diego — *DevOps Engineer Intern*

June 2020 - September 2020

- Used Zabbix and Docker to implement a highly available network monitoring solution for hundreds of production environments
- Scripted remote host and service health checks using Python
- Automated monitoring agent installation with Ansible
- Created an Agent deployment pipeline using Github Actions
- Used Python and SQL to automate database related tasks like synchronization and discrepancy detection

Treeline Interactive, San Diego — *Software Engineer Intern*

February 2019 - April 2020

- Used Jenkins, Capistrano, and Bitbucket to build CI/CD pipelines
- Developed production applications with Django, Laravel, and Vue.js
- Automated database related tasks with SQL
- Developed, tested, and deployed internal tools from scratch
- Created automated firmware tests with Python, Bash, and Ansible
- Programmed microcontrollers in C++

Smartfin, San Diego — *Machine Learning Student Researcher*

October 2018 - February 2019

- Used machine learning models to classify IMU sensor data
- Generated, processed, and visualized training and test data

PROJECTS

Hackerd.io – *Serverless Web App + CI/CD Pipeline*

- Designed a bookmark and notes manager service
- Implemented a serverless backend with Serverless and Python
- Created a responsive single-page frontend with Vuejs
- Managed application infrastructure with Terraform and AWS
- Built a multi-environment CI/CD pipeline using Github Actions
- Designed a NoSQL data model to efficiently persist data
- Added federated Google authentication with AWS Amplify
- Created a Google Chrome extension to integrate application logic into the browser

EDUCATION

UC San Diego

Major:
Cognitive Science – Machine Learning

Minor:
Computer Science

FRAMEWORKS

Django
Flask
Laravel
Serverless
Vuejs

TOOLS

Ansible
AWS
Docker
Github
Jenkins
NoSQL
SQL
Terraform

LANGUAGES

Python
Java
C / C++
PHP
Bash
Javascript