Josue Velasquez

Silver Spring, MD | (240) 701-3034 | josuevel98@gmail.com| http://www.josuevelasquez.com

Data Science: Modeling, validating, and processing algorithms
iOS Development: Utilizing Swift to develop applications for iOS
Programming Languages and technology: Experience with one or more general-purpose programming languages, web frameworks, Robotics libraries, Software Development practices, and version control systems such as; C/C++, Rust, Java, Python, Ruby, Swift; Ocaml, Javascript; HTML, CSS, Node, Spring, Pandas, TensorFlow, seaborne, matplotlib, Pandas, ROS, MATLAB, Git, GitHub

EDUCATION

University of Maryland, College of Computer, Mathematical & Natural Sciences	College Park, MD
Bachelors of Science in Computer Science	May '23

EXPERIENCE

Data Analyst Intern — Columbia, MD
Edulab — Oct '22-Present
- Produced user retention model using Google Bigquery
- Used model on dataset of 310,2000 entries
- Used Python to combine csv and prototype model

Developer — Kennedy Space Ctr, FL
NASA Robotics competition — Nov '17-May '18
- Utilized ROS C++ Library to aid in the development of pickup algorithm and arduino for the electronic controller
- Collaborated in a cross-functional team to execute development for a robotics competition
- Advocated and pitched to the Montgomery College Board Members to obtain funding to participate in the competition

PROJECTS

Nodejs Project — Silver Spring, MD
Deployed website on Render using nodejs — Nov '22-Dec '22
- Utilized yugioh card database api to fetch and display card images
- Used Mongodb to store records of cards from api call

Gradient Descent — Silver Spring, MD
Data science reference library — June '22-June '22
- Implemented Multivariate Linear Regression and Multivariate Logistic Regressions
- Utilized Matplotlib to visualize the difference between loss functions

Particle Filter algorithm — College Park, MD
Localization algorithm for Introduction to AI — March '22-April '22
- Leveraged the Monte-Carlo Method to localize Cars in simulation
- Experimented with Artificial Intelligence to optimize racing in simulation

Simultaneous Localization and Mapping (SLAM) — College Park, MD
Implemented SLAM algorithm in a group project for Computer Vision — Nov '21-Dec '21
- Created algorithm to map drone flight path from a given dataset

Groovy Data — Silver Spring, MD
Group project for Introduction to Machine Learning — Nov '20-Dec '20
- Developed a model to predict top 200 song placement using python, Matplotlib, Seaborn, and Pandas
- Utilized Spotify API to fetch dataset for proof of concept