Carlos Ordoñez

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SUMMARY

Software developer with experience in web and mobile applications using React.js, React Native, and Flutter. Skilled in authentication and data management with AWS Amplify, Firebase, and Google Auth. Familiar with deployment on Netlify and knowledgeable in machine learning concepts and implementation. Proficient in Python with hands-on experience building machine learning models, including deep learning with CNNs for image classification. Conducted academic research on the early detection of Alzheimer's disease using MRI data and machine learning techniques. Passionate about creating efficient, user-friendly, and impactful solutions.

CORE COMPETENCIES

- React
- React Native
- Flutter
- Python
- SQL
- Node.js (Express)
- Machine Learning
- Firebase
- Mongo DB
- Dart
- Spanish (Native)
- English (Fluent)

EXPERIENCE

Junior Software Developer Intern
Go Consultores | Jan 2022 – May 2022 | Tegucigalpa, Honduras
- Designed and developed the front end of a mobile application using Flutter, focusing on onboarding, login, and registration screens for the Go Lens Application.
- Implemented user authentication and login management for the Go Lens Application using AWS Cognito.
- Developed appointment creation features and designed UI components for a medical appointments app using Flutter.
- Built and deployed a RESTful API using Node.js and Express.js to handle user registration and login functionalities.
- Utilized AWS Amplify to simplify authentication and authorization workflows, enabling easier integration and reuse across future company projects.

Software Developer
Hospital Clinic "Blanca Rosa" | Jul 2022 – Aug 2023 | Tegucigalpa, Honduras
- Created interactive UI/UX mockups using Figma to visualize the application and guide the development process.
- Led 1-on-1 client meetings to gather requirements, showcase progress, and ensure the final product met expectations.
- Designed and developed a complete hospital clinic software from the ground up.
- Built the frontend using React.js and styled the interface with Tailwind CSS for rapid and responsive UI development.
- Utilized Firebase as a backend service for authentication, data storage, and real-time functionality.
- Deployed the application using Netlify, streamlining CI/CD and web hosting.

Master Research Project
Lakehead University | Sep 2024 – May 2025 | Thunder Bay, ON

Exploration into Predicting Alzheimer's Disease Using Machine Learning Techniques, TechRxiv.

techrxiv.org/1284327

- Conducted a master's research project focused on the early detection of Alzheimer's disease using machine learning techniques on MRI images.
- Utilized datasets such as ADNI, OASIS, and a Kaggle-based Alzheimer's MRI dataset for training and evaluation.
- Developed and compared multiple models, including CNNs, XGBoost, Random Forest, Gradient Boosting, Voting Classifier, and Vision Transformers, achieving up to 97% accuracy.
- Performed data preprocessing, including feature selection, scaling, and imputation of missing values.
- Applied data augmentation (e.g., flipping, rotation) and resampling techniques to address class imbalance.
- Evaluated model generalization by testing across different datasets and validating performance using 10-fold cross-validation and metrics such as accuracy and F1 score.

EDUCATION

MSc Computer Science (Artificial Intelligence Focus)
Lakehead University | Thunder Bay, ON | 2025

BSc Computer Science
Universidad Católica de Honduras | Tegucigalpa, Honduras | 2022