Jose Solano

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leonardohn07.github.io/portfolio-website/

EDUCATION

Florida State University   Tallahassee, FL
Bachelor of Science in Computer Science - GPA: 3.48   December 2025

Relevant Coursework: Database Management, Natural Language Processing, Statistics for Engineers, Introduction to Artificial Intelligence, Software Engineering I

PROJECTS

Accessibility Finder | *HTML, CSS, PHP, OpenStreetMap API, SQL, JavaScript*
- Built and deployed a community-driven web platform that helps users discover and share accessibility information for public places (restaurants, stores, parks)
- Designed the MySQL database schema and implemented secure PHP backend workflows for user accounts and CRUD posts with moderation support (admin flagging/removal)
- Integrated OpenStreetMap/Nominatim geocoding to enable location-based search and map visualization, turning user submissions into searchable accessibility insights

Named Entity Recognition Model | *Python, SpaCy, Tkinter, Streamlit, NumPy*
- Trained a domain-specific SpaCy NER model to convert unstructured travel and tourism text into structured entity data
- Built a user-facing application supporting PDF and Word ingestion, real-time entity highlighting, and export of annotated documents
- Enabled document-level insights through entity counts, distributions, and density metrics, allowing users to analyze text content at scale

Machine Learning Model Cat vs Dog | *Python, TensorFlow, Keras, PyTorch, NumPy, Matplotlib, Jupyter Notebook*
- Designed and trained a custom Convolutional Neural Network with three convolutional blocks, ReLU activations, max pooling, and dropout for regularization
- Tuned hyperparameters including learning rate (0.001), batch size (128), optimizer (Adam), and dropout rates to reduce overfitting and stabilize training
- Achieved **94% training accuracy** and **83% validation accuracy** after 29 epochs using normalized image inputs

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript, HTML/CSS/PHP, R
Frameworks: Streamlit, Flask, Tkinter
ML / Data: TensorFlow, PyTorch, Keras, PySpark, SpaCy, pandas, NumPy, Matplotlib
Developer Tools: Git, GitHub, Unix/Linux, Power Automate, VS Code, Eclipse, Apache
Concepts: Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Natural Language Processing, Computer Vision, API Integration (REST), Data Preprocessing, Model Evaluation

EXPERIENCE

Parts Sales Manager   June 2023 – December 2023
Autozone   *Tampa, FL*
- Analyzed inventory and sales data to identify discrepancies and improve ordering efficiency
- Coordinated daily operations and optimized workflows to maintain inventory accuracy