

Tristan Pedro

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SUMMARY OF QUALIFICATIONS

- I'm a reliable, focused undergraduate seeking a challenging internship for the summer of 2023, to allow myself to grow as a learner, communicator, and problem solver.
- Successful team experience in machine & deep learning, data science and software development.

EDUCATION

Bachelor of Science in Computer Science

May 2024

Texas State University, San Marcos, Texas

Minor in Mathematics | Texas State GPA: 4.0 | Cumulative GPA: 3.80

Relevant Coursework: Data Structures & Algorithms, Assembly Language and Technical Interview Prep

TECHNICAL SUMMARY

Languages: Proficient in C++ and Python, Familiar with Java, GoLang and HTML

Software: Git, JupyterLab/Notebook, QtDesigner, Google Colab, VsCode, Spyder and Anaconda

Extracurricular Activities: .EXE (Computer Science Club) & GDSC (Google Developers Club)

RELATED PROFESSIONAL EXPERIENCE

Machine & Deep Learning | REU Summer Research Experience in Edge Computing

Semi-supervised Labeling of Sensor-Generated Time-Series Data Research May - August 2022

- **Technologies:** Python, Pandas, Plotly, Ipywidgets, Anaconda, UMAP, Numpy, and Tensorflow.
- Developed an application prototype for visualizing, labeling, reviewing, and creating models of biomedical data using deep learning.
- Developed application interface using Jupyter Notebooks that can be deployed as standalone websites through Voila.

Undergraduate Research Assistant - IMICS Lab

Semi-supervised Labeling of Sensor-Generated Time-Series Data Research August 2022 - Present

- Continuing project work on the application prototype from summer REU.
- Expanding the visualization suite and the functionality of visualizations (e.g UMAP).
- Expanding the model library to include a more diverse selection of choices (e.g LSTM, Transformers, RNN).
- Implementing new features and fine tuning existing ones, to ultimately deploy the application for biomedical researchers.

SOFTWARE PROJECTS

Texas State University - Department of Computer Science - Raspberry Pi Cluster

Software Project Team Member January – May 2022

- On a team with plans to expand the Texas State Server Network with a Raspberry Pi Cluster, that allows students to benchmark programs from their coursework.
- Oriented the cluster to utilize Kubernetes, LDAP and JupyterHub to load balance programs running on the cluster and display diagnostics.

Sudoku Solver in Python

Personal Project August 2022

- Developed a functional Sudoku game that utilized the backtracking algorithm to solve the board.
- Implemented a GUI using Pygame, allowing you to manually solve the Sudoku board.
- You can press the spacebar to automatically see a step by step solving of the entire board.