San Antonio, TX
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Van My Ngo

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Education

San Antonio, TX | **University of Texas at San Antonio** | **Aug 2018 | Aug 2023**

- BS in Electrical and Computer Engineering. GPA: 3.8

Experience

Engineering Coop | **Trane Technologies** | **Jan 2022 – Aug 2022**

Tyler, TX

- Researched and implemented a machine learning algorithm to detect failures in HVAC systems.
- Leveraged Scikit-learn library's prebuilt machine learning models for efficient and accurate failure detection.
- Employed Pandas for data preparation, including cleaning, preprocessing, and feature engineering.
- Maintained task tracking and documentation using JIRA and Confluence, ensuring smooth project management and comprehensive documentation of methodologies and results.

Undergraduate Research Assistant | **University of Texas at San Antonio** | **Aug 2021 – May 2023**

San Antonio, TX

- Developed RL agents using Stable-Baselines3 algorithms such as DQN, A2C, and PPO.
- Configured and integrated Flight Gear flight simulator, MuJoCo physics engine, and Atari environment using OpenAI Gym.
- Conducted experiments, collected data, and analyzed results to evaluate the performance of RL algorithms.
- Worked primarily in a Linux environment, utilizing libraries such as TensorFlow and Stable-Baselines3.

Skills

- Programing Languages: Python, C/C++, JS/CSS/HTML
- Machine Learning: Supervised Learning, Reinforcement Learning
- Soft-skills: Collaboration, Problem solving, Time management, Continuous learning

Projects

- **Automated Network Security System** Implemented Machine Learning techniques to automate network security in a comprehensive security system. Developed and evaluated classification models to identify the optimal model for deployment on a Raspberry Pi, considering engineering constraints. Leveraged Scikit-learn for utilizing pre-built classification models and Pandas for efficient data preparation. Conducted model development, experimentation, and documentation using Jupyter. Recognized for outstanding performance, securing second place at tech symposium for Senior Design as a key member of a collaborative team of 4 engineers.
- **Language Detection** Developed a real-time language detection and translation system that takes input from a microphone and accurately detects the spoken language from a pool of languages.
- **Stock Prediction** Developed a stock price prediction project that leverages historical data fetched directly from Yahoo Finance.
- **Personal Website** Developed a personal portfolio website using ReactJS, showcasing my skills, projects, and achievements