SRIDHAR NANDIGAM

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TECHNICAL SKILLS

- **Languages:** Python | C++ | C | Rust | HTML | CSS | Javascript | C# | Java | R
- **Libraries:** PyTorch | Tensorflow | Matplotlib | React
- **Backend:** Node | Express | FastAPI
- **Databases:** Snowflake | MongoDB | SQL Server | MySQL | Firebase
- **Cloud Platforms:** AWS | Google Cloud Platform

EXPERIENCE

Software Engineer Intern – CGN Global (June 2022 – Present)

- Implementing data pipeline scheduling tool with Apache Airflow and DBT to create, schedule, and perform data transformations on Snowflake data warehouse
- Explore creating new data engineering tools as alternatives for current outdated infrastructure with Apache Beam
- Prototype new solutions to improve existing company tools for data solution architects to create data pipelines more efficiently

Data Engineer/Solution Architect – CGN Global (March 2021 – May 2022)

- Architected data solution for one of our top clients in an ETL staging server with SQL
- Wrote versatile C# program to consistently create backups of any data format in a SQL Server database to avoid costs of losing data
- Debugged and fixed data transform issues in production environment for over 800 active users.
- Designed data pipelines to support provision of enterprise data for transactional reporting and dashboards

Machine Learning Intern – TWG Technologies (March 2021 – August 2021)

- Designed and deployed Pytorch object detection and classification models
- Preprocessed and cleaned image data with OpenCV
- Created object detection algorithm with Tensorflow API
- Responsible for the designing and implementation scalable systems to properly integrate machine learning with AWS SageMaker
- Explored and implemented MLOPs best practices

Machine Learning Researcher - Biomedical AI Lab at UNT (May 2020 – January 2021)

- Developed Android AI application to be recognize gestures on smartphones for easy communication for patients with cerebral palsy
- Processed and cleaned accelerometer data with Pandas and Numpy
- Created LSTM model with Keras to detect gestures using accelerometer data
- Co-authored a chapter of *Bridging Human Intelligence and Artificial Intelligence* regarding autoencoders, embeddings, and dimensionality reduction (https://link.springer.com/book/10.1007/978-3-030-84729-6)

PROJECTS

Human-Following Robot

- Used Robotics Operating System (ROS), a C++ library to build an application to get a robot to identify, track, and follow a human target
- Interfaced with Azure Kinect to gather data on surroundings and calculate position of target
- Utilized UT Austin's BWI Robot and its navigation stack to calculate current position, determine next position based on the target's location, and navigate to it.

Alois Software

- Utilize React Native to design Android application front-end

- Implement state management with Redux to initialize and set component states
- Collaborate in designing application features on Figma

SustainaBrand

- App to provide alternatives to big name brands with bad business practices
- Created webscraper with Python to compile dataset of brands
- Used Stanford's GLoVE model to create embeddings for brands
- Utilized FastAPI and MongoDB to create backend to host model and make queries when necessary

EDUCATION

Pursuing Bachelor's in Computer Science -University of Texas Austin, Austin, Texas

- Expected graduation date, May 2024
- 3.74 GPA
- Relevant Coursework: Computer Architecture, Data Structures, Probability and Statistics, Freshman Research Initiative for Autonomous Robotics
- Clubs/Organizations: Engineering and Computational Learning of Artificial Intelligence in Robotics (ÉCLAIR)

AI Programming with Python Nanodegree – Udacity

- Basics of neural networks and building machine learning models with Python

Pursuing Solution Architect Certification on AWS

- Currently training to earn solution architect certification