

Sridhar Nandigam

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EDUCATION

University of Texas at Austin

Austin, TX

B.S in Computer Science and Mathematics; GPA: 3.79

August 2021 – December 2024

- Relevant Coursework: Data Structures, Discrete Math, Computer Architecture, Operating Systems, Distributed Computing, Autonomous Robotics, Principles of Machine Learning, Concurrency

SKILLS

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

EXPERIENCE

Amazon Web Services

Austin, TX

Software Development Engineer Intern

May 2023 - July 2023

- Developed **CI/CD pipeline** with Ruby to reduce **Redshift** deployment on-call time by **50%** with automatic merging, integration testing, deployment, and rollbacks
- Wrote end-to-end integration tests in **Java** for Redshift database cluster remediation functionalities to increase failure coverage by **250%**

Autonomous Robotics Lab at UT

Austin, TX

Undergraduate Researcher

August 2022 - May 2023

- Designed **C++** program on Building Wide Intelligence v4 robot with **ROS** to detect, identify, and follow a human target
- Revamped Building Wide Intelligence project code base for ROS2 with **Simultaneous Localization and Mapping** using gmapping package

CGN Global

Peoria, IL

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June 2022 - September 2022

Software Engineer Intern

- Pioneered data pipeline scheduling tool for entire team of hundreds of solution architects with **Apache Airflow** and DBT to create and execute data transformations on Snowflake data warehouse
- Prototype new data engineering tools as alternative for outdated platform infrastructure with Apache Beam, recreating **20%** of functionality

CGN Global

Peoria, IL

Data Engineer Intern

February 2021 - May 2022

- Architected data solution for top client as part of deliverable worth thousands of dollars in an **ETL** staging server with SQL
- Automate weekly data backups to avoid losing data from important clients with **C#** program to upload any data table from APIs into a **SQL Server** database, improving speed by **85%**
- Debugged and fixed data transform issues in production environment for over **800 active users** using SQL
- Designed SQL data pipelines to support provision of enterprise data for transactional reporting and dashboards

Biomedical AI Lab at UNT

Denton, TX

Machine Learning Engineer Researcher

May 2020 - January 2021

- Implemented Android AI application to recognize gestures by holding a smartphone for easy communication for patients with cerebral palsy
- Generated **6 MB** accelerometer dataset with **Java Android API** and processed with Pandas and Numpy
- Created **LSTM** model with Keras to detect 11 gestures with **93%** accuracy using accelerometer data
- Co-authored a chapter of **Bridging Human Intelligence and Artificial Intelligence** regarding autoencoders, embeddings, and dimensionality reduction with over **5.5k** accesses on Springer