Christian Macedo

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Objective	Leverage professional knowledge and skills to innovate solutions that address challenges faced by underserved communities nationwide.

Education

TEXAS A&M UNIVERSITY   **May 2026**
Bachelor of Science in Computer Science
GPA: 3.8

Technical Skills

Programming: Java, Python, C++, JavaScript, R, Haskell, SQL, Git, Google Cloud, HTML, CSS
Coursework: Data Structures and Algorithms, Computer Systems, Computer Organization,
Programming Languages, Discrete Math, Linear Algebra, Statistics

Experience

Fintech Focus Summer Internship   **July 2022**
Computer Science Internship
- Built full-stack web applications using Flask, Python, HTML, and CSS in teams of 2-4 people
- Developed prototypes and Minimum Viable Products that were reviewed by professionals in the FinTech industry
- Acquired fundamental teamwork and collaborative skills through active participation in project work, contributing to the creation of high-quality products

Projects

Real Estate Prediction Model
- Developed a real estate market prediction model for Texas counties using Python and machine learning techniques to forecast the number of homes sold at certain price points
- Implemented a linear regression model using scikit-learn to predict home sales, achieving a robust prediction accuracy of 87%
- Performed extensive data cleaning and feature engineering by handling missing values and removing outliers in variables

Parkinson's Prediction Model
- Created a Parkinson's disease prediction model using Support Vector Machine with a linear kernel to classify patient health data and determine the presence of Parkinson's disease
- Implemented data preprocessing techniques such as standardization using Standard Scaler to normalize features, improving model performance and ensuring that the SVM classifier operates effectively

SQL Lite Database Clone
- Created a custom database engine capable of handling SQL-like commands, focusing on performance optimization and memory management
- Utilized dynamic page allocation and retrieval to handle cache misses and grow the database file as needed
- Developed mechanisms to flush in-memory pages to disk, ensuring data persistence and consistency across sessions

Leadership

North Shore Senior High Anchor Club
Historian
- Coordinated over 18 community service events across the city of Houston, including school and city-wide initiatives
- Led groups of up to 40 students per event, managing task distribution and professional conduct

Activities

Aggie Coding Club   **September 2022 – May 2024**
- Programmed and constructed a fully functioning miniature rocket using Arduino and C ++
- Participated in various workshops held by both leaders in the organization and industry professionals to learn about programming languages and computer science careers

Aggie Data Science Club   **August 2023 – May 2024**
- Actively participated in workshops focused on machine learning and data science to enhance expertise
- Collaborated on a competitive project involving data analysis and machine learning model training