

David Caleb Gomez

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Education

University of Texas at Arlington

Arlington, TX

BS in Computer Science

May 2024

Relevant Coursework: Systems Programming, Data Structures and Algorithms, Artificial Intelligence, Introduction to Probability, Multivariable Calculus

Awards: 2nd Place, Senior Design — Innovation Day

Technical Skills & Projects

Programming: C, Java, SQL, Python, MATLAB, JavaScript, HTML, CSS

Frameworks & Tools: Wix, Java Swing, Git, Jira, Flask, Raspberry Pi, Jekyll, Git

Breathe Easy Sim

Developed a ventilator simulation platform for medical training at UTA's SMART Hospital. Led UI design and implementation in Java Swing for dynamic parameter control and real-time data visualization. Built backend modules simulating ventilator modes, airflow regulation, and patient response.

Resume Portfolio Website

Built a fully responsive personal portfolio website using HTML, CSS, JavaScript, and GitHub Pages. Showcases projects, skills, and professional experience to potential employers.

- <https://dcg1262.github.io>

Stock Price Prediction Project

Developed an LSTM-based deep learning model to predict Apple stock closing prices using historical time series data. Engineered technical indicators (EMA, RSI), implemented data normalization and sequence generation, and systematically tuned hyperparameters. Evaluated model performance using MSE and MAE, achieving ~3.75 USD average error on test data.

SeatGeek Price Tracker Project

Built an automated ticket price tracker using the SeatGeek API to monitor Dallas Cowboys ticket listings in real-time. Implemented price scanning logic in Python and integrated Telegram's messaging API to send instant alerts for underpriced tickets directly to a mobile device.

Relevant Experience

TEXAS BAPTIST STUDENT MINISTRY

Arlington, TX

Campus Missionary

August 2024 - May 2025

Served in a leadership program with a Christian non-profit organization. Led leadership workshops and mentored diverse student groups. Organized outreach events and managed campus engagement initiatives. Collaborated with team members to plan and execute programs, strengthening project management and communication skills.

Leadership

TEXAS BAPTIST STUDENT MINISTRY

Arlington, TX

Student Leader

January 2021 - May 2024

Led weekly small-group Bible discussions and facilitated campus outreach to engage new students. Developed leadership, public speaking, and interpersonal communication skills while collaborating with team members to foster community growth.