

YASH VERMA

401-234-3229 • its_yash@icloud.com • linkedin.com/in/-yv • github.com/yash-yv-verma

OBJECTIVE

Second-year CS and Mathematics major actively pursuing experiences focused on Software Engineering.

EDUCATION

The University of Texas at San Antonio (UTSA) | The Honors College | San Antonio, TX Aug 2022 – Dec 2025
Bachelors of Science, Computer Science & Mathematics of Data and Computing

Relevant coursework: **Application Programming**, Systems Programming, Analysis of Algorithms, Database Systems, Data Structures, Discrete Math Structures, Linear Algebra, and Computer Programming I & II

Extra Curricular: Association for Computing Machinery, UTSA | Chief Technical Officer of Rowdy Creators + Member.

TECHNICAL SKILLS

Programming Languages: Python, C, **Java**, **Swift**, Shell, SQL, **JavaScript**, **HTML**, **CSS**, LaTeX, Qiskit, and Q#.

Machines & Systems: macOS, Windows, Linux, Concurrency, IPC, Process Management, and Scheduling.

Application Development: Xcode, Android Studio, XML, Design Patterns, Gradle, and Multi page App Architecture.

Frameworks: JUnit, TensorFlow, Pytorch, Scikit-Learn, Android SDK, and SwiftUI.

RESEARCH

Study Participant | Independent Study: Developing AI Tools for Children, CS Dept. UTSA Jan 2024 – Present

- Engaging in an Independent Study supervised by Prof. Martin, developing AI tools for children; co-authoring a collaborative paper summarizing project objectives and outcomes.
- Teamed up to create the "Word2Vec4Kids" macOS app, employing **Xcode**, **Swift**, and **SwiftUI**; integrated interactive elements to illustrate Word2Vec's role in computer comprehension of English.
- Aiming to demystify AI concepts in an engaging manner to targeted study audience: students at Basis School.

EXPERIENCE

Computer Science Tutor | University of Texas, San Antonio | San Antonio, TX Jan 2024 – Present

- Tutoring a variety of courses including **Applications Prgm**, Systems Prgm, Programming II, and Programming I.
- Assisting students in understanding programming concepts, debugging code, and overcoming problems to complete projects and assignments.

Data Science Intern | Polestar Solutions and Services | Dallas, TX Jun 2023 – Aug 2023

- Collaborated with a team of data scientists and analysts to predict retained earnings for a key client, enhancing their financial forecasting capabilities and providing actionable insights.
- Handled data pre-processing tasks, including extraction, transformation, and data imputation.
- Enhanced Python programming skills, using data science libraries for effective data manipulation and visualization.

TECHNICAL PROJECTS

Rowdy Guide

- Led the development of the Rowdy Guide Android application, a comprehensive tool for UTSA students to navigate the campus and stay informed about university events.
- Demonstrated advanced **Java** and Android Studio skills, incorporating features such as interactive campus maps, interactive RecyclerView scrolling feature, application navigation menu, and application's GUI (XML files).

Last Drop

- Co-developed this iOS application leveraging Apple's Contacts and Maps APIs, built using **Swift** and **SwiftUI**.
- Designed to optimize battery longevity by providing essential functionalities at low battery levels (10-15%), including messaging, calling, emergency ride booking, and map downloads within a user-specified radius.
- Limited app functionality to 10 contacts to minimize energy consumption compared to native phone or messaging apps.
- Moreover, implemented a feature to automatically share the user's last known location with specified contacts when the battery level drops to 2%.