

Joanne Ramesh

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Education

Texas A&M University,
College Station, TX
Bachelor of Science in Data Engineering
August 2023 - Current

Rick Reedy High School
High School Diploma (Cum Laude)
Completed in 2023

Technical Skills

- **Languages:** Python, C++, Java, Swift, R, JavaScript, SQL
- **Tools/Environments:** Git, VS Code, Jupyter Notebook, PyCharm
- **Operating Systems:** Linux, WSL, Windows
- **Cloud:** AWS Public Cloud
- **Frameworks/Libraries:** React, Yarn, Node.js, Next.js

Certifications

- Certified in Python Basics, University of Michigan
- AWS Cloud Practitioner (WIP)

Leadership/ Organizations

- **Society of Asian Scientists & Engineers (SASE)**
 - 2024 - Present | Texas A&M University
- **Society of Women Engineers (SWE)**
 - 2023 - Present | Texas A&M University
- **Aggie Coding Club**
 - 2023 - Present | Texas A&M University
- **Girls Who Code**
 - 2021 - 2023 | Rick Reedy High School
- **Varsity Treble Choir**
 - 2022 - 2023 | Rick Reedy High School

Languages

English	Native
French	Proficient
Tamil	Proficient
Spanish	Intermediate

Executive Summary

I am a sophomore at Texas A&M University, majoring in Data Engineering. I am passionate about leveraging innovative AI and machine learning solutions to solve business problems, create value, and set trends. I aim to deepen my expertise by completing the AWS Machine Learning track, equipping myself with the knowledge and skills needed to drive impactful solutions in the tech industry.

Professional Experience / Projects

Maroon Match App

Design Lead | TAMU Hack | Texas A&M University

Aug 2024 - Present

- Competed in TAMU Hack's HowdyHack 2024, collaborating with a team to develop Maroon Match, a dating app.
- Designed and implemented the front-end using Swift UI and developed a back-end API for an AI chatbot. Currently expanding the app's features according to the feedback recieved from the hackathon, and targeting a BETA launch by Spring 2025.

DEATZ App & Website

Design Lead | Aggie Coding Club | Texas A&M University

Aug 2024 - Present

- Led front-end design for DEATZ, a web application offering students food deals, promotions, and community insights.
- Implemented user interfaces using Node.js, Next.js, React, and Yarn, and developed design prototypes with Figma to enhance user experience and engagement. Initial launch is planned for February 2025.

Teaching Assistant (TA) for PHYS/ENGR 216

Texas A&M University

Aug 2024 - Present

- Teaching Assistant for ENGR 216/PHYS 216, assisting students in applying principles of mechanics to solve engineering and physics problems, conducting labs on sensing, control, and actuation, and ensuring experimental verification of key physics concepts.

AI/ML in Green Aviation Project

Independent Study & Mentorship Program

June 2022 - May 2023

- Studied AI in Aeronautics through the Independent Study & Mentorship program, researching AI/ML applications in aerospace and sustainability.
- Developed a predictive model for a hydrogen-fueled hybrid aircraft with a mentor, resulting in a final research paper and 30-minute presentation on AI in Green Aviation.

Radicubs Robotics

Team Lead | FIRST Robotics Challenge

July 2020 - Jan 2023

- Served as Business/Field Lead and Mechanical Team Member, raising \$25K-\$34K annually, mentoring FRC/FLL teams, and managing/directing outreach events.
- Contributed to robot CAD, design, and engineering, led field-time operations, and built wooden models of FRC challenges. As part of the drive team, ensured robot operated properly during competitions.

SWENext Project

Co-Author/Mentee | SWENext Program | Reedy High School

Aug 2020 - Dec 2023

- Co-authored and published "Dream Big, Little Juno", an educational children's book inspiring STEM interest in youth.
- Distributed 80+ copies to underprivileged areas. Mentee in the SWENext mentorship program.

Bakes of Eden

Founder | Online Baking Business

June 2022 - Dec 2023

- Custom bakes and creations specializing in gourmet cupcakes and bakeneering creations.

Worship Leader Kids/Students Ministry

Gateway Church | Frisco

Dec 2019 - Present

- Lead 100+ kids from the platform each service (4 per weekend)