Ryder Salinas

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EDUCATION

Texas A&M University   **May 2027**
Bachelor of Science in Computer Science, Minor in Statistics (**GPA 3.949**)

Relevant Coursework: Discrete Structures for Computing, Computer Organization, Programming Languages, Foundations of Software Engineering, Design and Analysis of Algorithms, Principles of Data Science, Statistical Computing, Linear Algebra

PROJECTS

Multi-Threaded Bank Simulation | Backend Developer   **April 2025**
- Designed a program in Java to simulate banking interactions by instantiating new bank account objects and fulfilling transactions via commands from a text file
- Utilized Runnable threads to process transactions from multiple sources concurrently and in parallel, using reentrant locks to ensure correctness by preventing deadlock or race conditions

War Game Simulation | Backend Developer   **March 2025**
- Developed Java logic to simulate a fully automated game of *War* while adhering to an object-oriented design with Card and Player classes
- Integrated inheritance and interfaces to extend parent classes into specialized sub-classes, enhancing code reusability and maintainability

Recipe Management System | Backend Developer   **March 2025**
- Parsed and organized ~1,600 recipes from a JSON file into a searchable Java database, enabling lookups by ingredients, author, cooking method, and keywords

Wild West Shootout (*Howdy Hack 2024*) | Backend and Frontend Developer   **September 2024**
- Collaborated in a 3-person team over a 24-hour hackathon to engineer a standalone single-player PC game inspired by iMessage's *Paintball*
- Implemented game logic and user interaction in Python while syncing front-end design and animations with PyGame

EXPERIENCE AND LEADERSHIP

The Gates Scholarship   **April 2023 - Present**
Squad Leader (June 2024)
- Chosen as 1 of 200+ squad leaders for the Gates Scholarship Summer Institute, focused on mentoring new scholars and fostering peer connections through an intensive virtual program and 4-day in-person conference
- Co-led a sub-squad of 4 scholars, guiding them through daily activities supporting their transition to college

Scholar (April 2023 - Present)
- Selected as 1 of 750 Gates Scholars nationwide from a pool of 51,000+ applicants through a competitive application process involving essays and interviews

Freshmen in Engineering, Science, and Technology (FEST) | College Station, TX   **September 2023 - May 2025**
Engagement Committee Director (August 2024 - May 2025)
- Appointed as 1 of 12 committee directors to mentor 50 incoming STEM students and foster strong peer connections
- Strengthened leadership and collaboration within a 10-member committee by spearheading organizational initiatives
- Coordinated weekly emails, presentations, and meetings, streamlining communication across ~80 members

Engagement Committee Sub-Leader (August 2023 - May 2024)
- Accepted into a competitive freshmen leadership program as 1 of 50 incoming STEM students, facilitating member development through social, service, and professional events

Neural Volume Rendering Research Team | College Station, TX   **August 2024 - December 2024**
Research Assistant
- Contributed to a 4-person research team to refine and optimize neural volume rendering algorithms for generating novel 3D environments from 2D images

SERVICE

The Big Event | Group Leader, College Station, TX   **March 2024**
- Led a 4-member volunteer team serving local Bryan, TX residents by completing requested household and yard tasks

BUILD Volunteer | College Station, TX   **November 2023**
- Supported the conversion of shipping containers into portable medical clinics for underserved communities

ADDITIONAL INFORMATION

Skills: Microsoft Windows, Linux, Python, Java, C++, R, Haskell, HTML, CSS, Assembly, Git, Github, VSCode, Rstudio