

SAMEEKSHA MEHROTRA

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2028

Bachelor of Science in Computer Science

- **Minors:** Statistics and Data Science, Business
- **Relevant Coursework:** Data Structures, Machine Learning, Web Development, Data Visualization, Computer Architecture
- **Honors/Awards:** 2024 National Center for Women in Technology (NCWIT) Aspirations in Computing High School Award North Texas Affiliate Winner

SKILLS

- **Programming Languages:** HTML, CSS, Java, JavaScript, R, Python, C, C++, SQL,
- **Tools:** React, JIRA, Eclipse, RStudio, VS Code, Bootstrap, Spring Boot, Unity, Blender, PyTorch, Tensorflow, JQuery, SQL
- **Certifications:** Microsoft 2020 "Introduction to Programming Using Java"; Microsoft Word and Excel
- **Languages:** Fluency in English, Hindi; Conversational Proficiency in Spanish

TECHNICAL PROJECTS

Detroit Traffic Crashes Speeding Analysis, R Code with R Studio and Powerpoint, UT Austin

September 2024 – May 2025

- Built and evaluated ML models (Decision Tree, SVM, KNN, Logistic Regression) achieving up to 90.7% accuracy; used SHAP library for feature importance and interpretability
- Generated visualizations by analyzing factors like driver age, lanes, and speed limit influencing speeding to derive insights, such as lower speeding likelihood with more occupants, and presented findings to class

Evil Hangman Game, Java and VS Code, UT Austin

February 2025

- Developed Evil Hangman - a Java-based game that cheats by delaying word selection (published on GitHub)
- Implemented methods for game preparation, guess processing, pattern updates, and difficulty levels, partitioning words into families based on guesses
- Optimized for edge cases including repeated guesses and random word selection; incorporated debugging mode for testing with small and large dictionaries

EXPERIENCE

Citibank, USPB Merchant Services Credit Intern, Hybrid

June 2025 – August 2025

- Developed an executive-level presentation for senior managers, detailing data analytics and modeling for enhanced governance and JIRA tracking
- Designed and implemented customized, reproducible JIRA dashboards to improve compliance monitoring and vulnerability tracking across all co-branded cards going forward
- Utilizing JQL, engineered and implemented smart JIRA filters to streamline tracking processes, increasing delivery efficiency and reducing manual overhead by 20% across development cycles

Citibank, Unified Lending Software Engineering Intern, Hybrid

June 2024 – July 2024

- Engineered JUnit tests on Spring Boot and mapped end-to-end flow of Flex Loan Pay options on Citi's website
- Collaborated cross-functionally with scrum teams and senior managers to support production lending systems
- Designed and delivered technical presentation to 100+ interns, engineers, and Citi alumni, earning top feedback

CAMPUS AND COMMUNITY INVOLVEMENT

Longhorn Neurotech, ML - Computer Vision & Reinforcement Learning Software Engineer, Austin

October 2025 – Present

- Building ML-driven brain-computer interface (BCI) assistive technology using computer vision, reinforcement learning, object detection, and autonomous navigation to support shared-control wheelchair mobility systems

Raas Rodeo, Tech Chair, Hybrid

June 2025 – Present

- Developed the organization's first-ever website using React and VS Code, integrating external APIs and deploying via a custom domain to enhance user experience and brand presence
- Directed digital strategy and branding by leading content creation, high-impact video production, and creative campaigns across platforms like Instagram and TikTok, boosting engagement by 40% and Instagram reach by 25%

STEM-E Youth Career Development Program, Programmer, Blogger, Remote

March 2023 – May 2025

- Collaborated with programmers via GitHub to model 3D cars in Blender and develop a 3D educational racing mobile game using C++ and Unity
- Authored and published 5+ blog posts and magazine articles, generating 70+ views and promoting engagement with tech and game development topics