

# Elise G. Senechal

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## EDUCATION

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**The University of Texas at Austin**, Austin, TX

May 2025

*Bachelor of Science in Mathematics*

GPA 4.0

Relevant Coursework: Discrete Mathematics, Programming Fundamentals I & II, Multivariable Calculus

## SKILLS

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**Technical/Computer Skills:** Python, Java, C++, SQL, Pandas, NumPy, Jupyter, HTML, PowerBI

**Languages:** Spanish (Conversational), Japanese (Beginner)

## EXPERIENCE

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**Austin Community College District**, Austin, TX

October 2019 – May 2020

*Supplemental Instruction Leader - Mathematics*

- Conducted twice-weekly supplemental sessions for two sections, each composed of 25 students
- Led group learning by creating cooperative activities and custom practice questions
- Guided students through exam weeks with study strategies and exam tips

**Coding with Kids**, Austin, TX

October 2019 – February 2020

*Instructor*

- Directed weekly Python classes to an all-girl class consisting of 32 students
- Created lesson plans and weekly reports to track individual student progress using Microsoft Suite
- Instilled passion for computer science by building student's confidence with technology

**NASA: National Community College Aerospace Scholars**, JFK Space Center, FL

June 2019 – August 2019

*Intern*

- Competed against over 1,000 STEM students in aerospace coursework and research
- Developed a research project pertaining to a projected 2030 Mars Mission proposal
- Awarded On-Site Experience at John F. Kennedy Space Center based on exemplary performance
- Led Python programming in a team competition to build a functioning Mars rover

## PROJECTS

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### FIFA World Cup 2022 Database and Data Visualization

- Conducted in-depth performance analysis of players in their respective positions to identify top players and teams
- Utilized Python, Pandas, and Jupyter Notebook for data scraping, cleaning, organization, and transformation
- Employed PowerBI for data aggregation, modeling, and interactive data visualization

### Tic-Tac-Toe Game

- Developed a GUI-enabled Tic-Tac-Toe game using tkinter and NumPy arrays
- Implemented Object-Oriented Programming principles for a well-structured program
- Implemented data storage to track player wins, losses, and ties, ensuring comprehensive game history records

## HONORS AND AWARDS

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- Tau Sigma Honor Society Member
- Gold Scholar Coca-Cola Academic Team