

# Juniper Mills

Undergraduate Student  
Texas A&M University

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GitHub Profile  
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## EDUCATION

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### •Texas A&M University, College Station

*B.S. Computer Engineering*

2022-26

Cumulative GPA: 3.467

## PROJECTS

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### •Numerical Simulation of Ediacaran Biota

*Numerical diffusion simulations to investigate nutrient flow in the prehistoric seafloor.*

- Scientific programming in the Python programming language using the PyTorch library for hardware acceleration.
- Aimed to investigate nutrient flow among specific individuals in the Ediacaran biota.
- Technology Used: Python, PyTorch.

### •The Mouseless Mouse

*Open source hardware project developing a three-dimensional human interface device.*

- Developed sensory and calibration routines (including error correction routines) for a three-dimensional human interface device.
- Project won *Crowd Favorite* in Aggie Coding Club.
- Technology Used: C++, Eigen, ESP32 Platform.

## EXPERIENCE

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### •Data Science Internship

*Linquist Corporation*

June - August 2023

San Antonio, TX

- Worked on data analysis contracts for the United States Air Force and Space Force
- Produced data visualizations using Seaborn, Matplotlib, Plotly, and other visualization software
- Performed data analysis using techniques including clustering analysis, exploratory factor analysis, Markov modeling, and outlier analysis using support vector machines
- Collaborated in the production of presentations, reports, and interactive dashboards for government customers

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** C/C++, Python, Java, R, SQL, Javascript, HTML/CSS

**Libraries and Frameworks:** C++ STL, Eigen, Pandas, Numpy, Scipy, Scikit-learn, PyTorch, Matplotlib, Seaborn, Plotly, Dash, Shiny, SQLAlchemy, SpaCy, Mithril.js

**Tools:** Jupyter Notebooks, RStudio, JetBrains DataSpell, Visual Studio Code, Git, Github, Tableau

**Cloud/Databases:** MongoDB, Relational Databases (e.g. MySQL, SQLite)

**Relevant Coursework:** Python (ENGR 102), Statistics and Error Propagation (ENGR 216), Calculus 1-3 (MATH 151, 152, and 251)

**Areas of Interest:** Embedded Programming, Data Science, High-Performance Computing

**Soft Skills:** Self-Learning, Effective Communication, Reliability, Adaptability