Juniper Mills
Computer Engineering Student

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Education

TEXAS A&M UNIVERSITY

August 2022 – May 26

B.S. Computer Engineering

3.467 CGPA

Projects

NUMERICAL SIMULATIONS OF THE EDIACARAN BIOTA

January – May 2022

- 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

THE MOUSELESS MOUSE

February 2023 – Ongoing

- Developed sensory and calibration routines (including error correction routines) for a three-dimensional human interface device
- Used sensory processing and integration techniques including Kalman filtering and magnetometer calibration

Work Experience

DATA SCIENCE INTERN

June – August 2023

Linquest Corporation

San Antonio, Texas

- 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

Skills

Spoken Languages: Fluent in English, conversational in French

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

Programming Languages: LaTeX, Python, C, C++, HTML/JS/CSS, Java, Ruby, R, SQL

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

Tools: PlatformIO, Jupyter Notebooks, RStudio, Jetbrains DataSpell, Visual Studio Code, Git, Github, Tableau Prep

Relevant Coursework: ECEN 248 (Introduction to Digital Systems Design), CSCE 121 (Program Design and Concepts), MATH 308 (Differential Equations)