JACK ROWE

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CAREER GOAL – Solve complex science, technology, and engineering problems to advance the understanding of our world and improve the sustainability of our society.

CAREER INTERESTS – Research, Design and Development, Computational Engineering, Data Science, Computational Chemistry, Materials Science, Mathematical Modeling, Computer Simulation, Machine Learning & Artificial Intelligence, Meteorology

EDUCATION – Current student at The University of Texas at Austin
- Cockrell School of Engineering, Computational Engineering, Class of 2026, 3.87 GPA
- Boerne High School, Honors Graduate, Class of 2022, Summa Cum Laude, 4.00+ GPA
- 3+ years of college-level S.T.E.M. equivalent coursework completed:
    - Procedural & Object-Oriented Computer Programming
    - Linear & Nonlinear Systems of Equations Programming
    - Differential, Integral, & Multivariate Calculus
    - Differential Equations with Linear Algebra
    - General Chemistry 1, 2, & Organic Chemistry 1
    - Physics 1 Mechanics, Engineering Physics 1
    - Mechanical Engineering Design & Manufacturing

EXPERIENCE – 2016 to 2023
- Computer Programming, Development, and Analysis:
    - 1+ years of C++, C#, and MatLab
    - 4+ years of commissioned, freelance software (plugins)
    - 5+ years of Java
    - 6+ years tutorial creation & publishing
    - 7+ years public server development & management
- 1+ years designing & manufacturing with SolidWorks, Cura, & Fusion 360
- 3+ years of Math, Chemistry, Physics, and general science tutoring
- Familiar with all Microsoft Office 365 & Google Suite Programs

PROJECT LIST
- Designed a virtual pathogen spread, mutation, and natural selection computer simulation
- Developed a fractal rendering engine compatible with and optimized for complex numbers
- Launched a successful online store and website to compliment a public game server
- Designed a storm and tornado simulation using data from NOAA's Storm Prediction Center

ACHIEVEMENTS
- 2022 Texas Academic UIL:
    - Computer Science Regional Finalist
    - Mathematics Regional Finalist
    - Physics State Finalist
    - Science State Bronze Medalist
    - Chemistry State Silver Medalist
- 2021 Minehut Software Hackathon Gold Medalist in Best Custom Plugin