Anna Sims

(567) 694-4688 • tesims@umich.edu • www.sycorpia.xyz

EDUCATION

University of Michigan, *EECS* **Ann Arbor, MI**
Bachelors of Science in Engineering in Data Science *Dec. 2024*
Relevant Coursework: Numerical Analysis, Probability and Statistics, Data Structures and Algorithmn, Linear Algebra, Applied Computational Machine Learning, Integrated Product Development, VR/AR/XR Prototyping

SKILLS

Languages: C++, Python, Julia, R
Data Science & AI: Recommendation Systems, Chatbots, Computer Vision
Spatial Computing: Motion Capture, Eye Tracking
Embedded Systems: PCB Design, Soldering
Design: CAD, CNC Milling, 3D Printing
Frameworks: Javascript, Next.js, Node.js
Libraries: PyTorch, TensorFlow,
Software & Tools: AWS, Unreal Engine, Blender, ARKit
Hardware & Software: Arduino, Raspberry Pi
Tools: AutoCAD, Solidworks

WORK EXPERIENCE

XR Dev and Lab Manager **Ann Arbor, MI**
XR Visualization Studio Oct. 2022 - Present
- Collaborated with cross-functional teams to design and implement immersive XR solutions for research projects across various disciplines.
- Provided technical support and training to students, faculty, and researchers on VR/AR development and usage.

Research Assistant, *Deep Learning* **Ann Arbor, MI**
Strategic Reasoning Group Oct. 2022 - Aug. 2023
- Analyzed implications of algorithmic trading on financial markets through advanced modeling techniques.
- Utilized cutting-edge deep learning frameworks and methodologies for quantitative finance applications.

Trading Analyst **New York, NY**
Genesis Global Trading June - Aug. 2022
- Developed machine learning models for parameter estimation (MoM, MLE, Bayesian), volatility forecasting (Ornstein-Uhlenbeck, Heston, Variance-Gamma), and optimal hedging strategies (Deep Hedging, neural networks).
- Researched compliance solutions for institutional DeFi and DEX participation.
- Prototyped permissioned EVM subnet using Avalanche for lower-latency crypto trading.
- Identified hybrid-cloud architectures to optimize trading system connectivity.

Design Engineer **Boston, MA**
Nexamp Jan. - June 2021
- Designed and optimized layouts, schematics, and electrical diagrams for photovoltaic power plants using AutoCAD.
- Performed medium voltage design work to support utility interconnection of solar power plants.

Research Assistant, *Data Science* **Ann Arbor, MI**
ASSET Lab June 2020 - Feb. 2022
- Co-authored academic publication "Emissions impacts of electrifying motorcycle taxis in Kampala, Uganda" under Dr. Michael Craig.
- Analyzed large emissions datasets. Built comparison models for solar electric motorcycles.

Instructional Aid, *MATH 105* **Ann Arbor, MI**
University of Michigan June - Aug. 2018
- Conducted weekly workshops and tutoring sessions for a calculus-based undergraduate mathematics course.
- Graded assignments, exams, and provided feedback to students.
- Expertise in explaining complex mathematical concepts and supporting student learning.

FELLOWSHIPS & AWARDS

LocalHost Fellow, *Present*
Founder University, *2023*
optimize SIC & Summer Fellow, *2018*
Willie Hobbs Moore: Aspire, Advance, Achieve, 2019
MLK Student Spirit Award, *2019*
Leadership Engagement Scholar, *2019*