

Anna Sims

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EDUCATION

University of Michigan, EECS

Bachelors of Science in Engineering in Data Science

Ann Arbor, MI

2025

Relevant Coursework: Data Structures and Algorithms, Probability and Statistics for Engineers, Machine Learning, Numerical Analysis, Integrated Product Development

WORK EXPERIENCE

ByteDance

Innovator Fellow

San Jose, CA

May 2024 - Present

- Collaborating with ByteDance researchers to build a privacy framework for multimodal LLMs, focusing on optimizing data anonymization while preserving semantic integrity across visual and textual content.

Emerging Technologies Group

XR Consultant and Lab Manager

Ann Arbor, MI

Oct. 2022 - Present

- Collaborated with diverse teams across academic departments to design and deploy innovative XR educational programs, empowering students to achieve deeper learning through hands-on, immersive experiences.

Strategic Reasoning Group

Research Assistant

Ann Arbor, MI

Oct. 2022 - Aug. 2023

- Redesigned and modernized a trading market simulator used to test trading strategies, transitioning it from Java to Python. This update improved the efficiency and functionality of the simulator, allowing for more accurate testing and analysis.

Digital Currency Group

Quantitative Trading Analyst

New York, NY

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.
- Designed hybrid cloud architectures proposals to optimize trading system connectivity.

Nexamp

Design Engineer

Boston, MA

Jan. - June 2021

- Designed and optimized 32 layouts, schematics, and electrical diagrams for photovoltaic power plant proposals in AutoCAD
- Performed medium voltage design work to support utility interconnection of solar power plants.

ASSET Lab

Research Assistant

Ann Arbor, MI

June 2020 - Feb. 2022

- Co-authored academic publication "Emissions impacts of electrifying motorcycle taxis in Kampala, Uganda"
- Analyzed large emissions datasets. Built emission comparison models to compare performance of diesel and solar powered motorcycles.

University of Michigan

Instructional Aide

Ann Arbor, MI

June - Aug. 2018

- Taught weekly workshops and tutoring sessions for a calculus-based undergraduate course.

SKILLS

Programming Languages: C++, Python, R

Frameworks: Flask, Pytorch, Tensorflow, Apache Spark, Airflow

Databases: NoSQL (MongoDB), SQL (PostgreSQL, MySQL)

Cloud & DevOps: AWS, Azure, Docker

PROJECTS

Graxl, a multimodal data masking system for LLMs that preserves context while protecting sensitive information across text, images, and structured data

Drolg, an AI party DJ that uses computer vision to create and maintain the ideal party atmosphere

FELLOWSHIPS

LocalHost Fellow, *Present*

Founder University, 2023

optimize SIC & Summer Fellow, 2018

COMPETITIONS

PennApps, *Wolfram Award*

HackHarvard, *Best First-time Hack*

Google x MHacks AI Hackathon, *Top 5*

AWARDS

Willie Hobbs Moore: *Aspire, Advance, Achieve, 2019*

MLK Student Spirit Award, 2019

Leadership Engagement Scholar, 2019

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