

Sai Meda

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EDUCATION

Purdue University – West Lafayette, IN

May 2026

B.S in Computer Science and B.S. Statistics

Majors: Artificial Intelligence and Applied Statistics | **Minor:** Psychology

• **Presidential Scholar:** Recognized based on exceptional academic performance and leadership contributions

Relevant Coursework: Data Engineering in Python, Algorithmic O-O Programming, Discrete Mathematics, Linear Algebra

Activities: Financial Management Club, Asian American Alliance, Data Mine, Purdue Solutions Consulting, VIP

EXPERIENCE

Purdue Solutions Consulting – West Lafayette, IN

August 2023 – Present

• Selected as one of 15 individuals out of a pool of 200+ applicants to provide third-party solutions to address business problems

DigitalNext - Warren, NJ

Cybersecurity Consultant

January 2024 – May 2024

• Developed an integrated sales strategy, leveraging data analytics and cybersecurity portfolio to drive sales growth by 75 percent

• Conducted comprehensive market analysis in collaboration with team members identifying potential client cyber needs

CES Nationwide – Hodgkins, IL

Technology Consultant

August 2023 – December 2023

• Derived a new SKU and item class system based off current industry practices by parsing through over 4000 items of inventory

• Coordinated with needs of CES staff and vendors on an efficient way to reorganize product IDs for future order processing

Artificial Intelligence in Music - Elmore School of Electrical and Computer Engineering

Machine Learning Researcher - **PI's:** Lu Yung-Hsiang and Kristen Yeon Ji-Yun

January 2024 – Present

• Conducted research on machine learning and robotics literature to engineer a robot with 6 degrees of freedom to play a cello

• Collaborated on developing a supervised learning environment with a robotic arm as an agent and sensors for environment

• Trained a RL algorithm and fine tuned an algorithm with recurrent neural network while utilizing deep Q* learning

The Aerospace Corporation – El Segundo, CA (Remote)

Full Stack Engineer

January 2024 – May 2024

• Created a Flask application using Plotly and Pandas, boosting visualization efficiency by 40% through simulated telemetry data

• Orchestrated a robust SQL database to streamline user interactions and enhance file processing efficiency by 30%

• Leveraged real-time telemetry data with a Kalman filter to account for errors, leading to a 75% reduction in interference in data

Microsoft (Minecraft) - Redmond, Washington (Remote)

Data Engineer

August 2023 – January 2024

• Enhanced Twitter sentiment analysis tools, resulting in a 50% increase in data processing speed of 10,000+ tweets per day

• Refined data extraction pipelines, automating storage of large datasets while reducing manual data handling time by 75%

• Applied LDA to analyze over 5,000 YouTube comments and applied BERT achieving 89% accuracy for sentiment analysis

Crazy4Crayons – Carmel, IN

Founder

August 2022 – May 2023

• Established an organization to create equitable access to education, resulting in a total of \$1590 raised and over 800 supplies

• Spearheaded a large-scale community giving project for Carmel DECA, coordinating an operation with more than 50 participants

PROJECTS

MountainCarRL - Python, OpenAI Gymnasium, NumPy, Matplotlib

• Implemented an efficient reinforcement learning model using Q-learning to solve classic Mountain Car problem

• Integrated Python-based machine learning libraries such as NumPy and Gym, while visualizing agent's training progression

Social Zoom - Java, GUI, NetworkIO, File-IO

• Developed a social media platform in Java with a smart news feed, while achieving real time updates and minimized latency

• Instituted scalable micro-services architecture to support real-time user interactions, content sharing, and data processing

Lock Free Order Book - C++

• Engineered a high-performance, lock-free order book in C++ for financial securities utilizing atomic operations for fast execution

• Managed over 10,000 concurrent buy/sell orders without traditional locking mechanisms, reducing latency by 40%

TECHNICAL SKILLS

Programming Languages: Python, Java, R, Javascript, C++, HTML, SQL

Tools/Frameworks: Word Press, Pandas, Matplotlib, Git, Tensorflow, Orekit, Pytorch, Flask, React, Numpy

Certifications: Microsoft Azure AI Fundamentals, Microsoft Azure Fundamentals, Google Product Management