Sai Meda

meda@purdue.edu | github.com/saimeda1 | www.linkedin.com/in/saivmeda/ | https://saivmeda.com/

EDUCATION

Purdue University – West Lafayette, IN December 2026
B.S in Computer Science - Artificial Intelligence, Applied Statistics
Minor: *Psychology and Mathematics*
• **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 identifying emerging AI cybersecurity markets and potential client cyber needs
CES Nationwide – Hodgkins, IL
Technology Consultant August 2023 – December 2024
• 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 the cello
• Collaborated on developing a supervised learning environment with a robotic arm as the agent and sensors for the environment
• Trained RL algorithm with a recurrent neural network to fine tune algorithm and incorporate deep Q* learning for the values

The Aerospace Corporation – El Segundo, CA (Remote)
Full Stack Engineer January 2024 – May 2024
• Developed an application using Plotly, Pandas, and Flask, simulating telemetry data that enhanced visualization efficiency by 40%
• Orchestrated a SQL database capable of managing, which streamlined user interactions, improving file processes by 30%
• Leveraged real-time telemetry data with a Kalman filter to reduce 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 the storage of large datasets which reduced manual data handling time by 75%
• Applied LDA to analyze over 5,000 YouTube comments and implemented 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, Matplot*
• Implemented an efficient reinforcement learning model using Q-learning to solve the classic Mountain Car problem
• Integrated Python-based machine learning libraries such as NumPy and Gym, while visualizing the agent's learning 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 reduced latency
• Implemented 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, Matplot, Git, Tensorflow, Orekit, Pytorch, Flask, React, Numpy
Certifications: Microsoft Azure AI Fundamentals, Microsoft Azure Data Scientist Associate, Duke AI Product Management