SHRIYA KANKATALA

shriyakankatala.com | 248-270-7081 | kankats@umich.edu | linkedin.com/in/shriyakankatala | github.com/shriyakankatala

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EDUCATION

University of Michigan   **Ann Arbor, MI**
BSE in Computer Science, Minors in Business & Mathematics   *May 2026*
GPA: 3.91/4.00 | **Honors & Awards:** Regent's Scholar, Engineering Dean's List
Coursework: Data Structures and Algorithms, Computer Organization, Discrete Math, Web Systems, Linear Algebra, Multivariable Calculus, Probability
Organizations: V1 Michigan (Platform Team), MHacks (Design Team), Indian American Student Association (Marketing Chair)

EXPERIENCE

Xoul   **Remote**
Software Engineering Intern   *June 2024 - August 2024*
- Utilized ControlNet preprocessors and Stable Diffusion models to programmatically generate consistent AI characters for dynamic scene depiction in user-character chatbot interactions, which led to a 15% increase in model accuracy
- Optimized various GPTQ quantizations in Ubuntu for the llama3-model, leveraging Hugging Face's transformers library to enhance computational efficiency, enabling deployment on resource-constrained devices while maintaining high model performance and reducing operational costs by 6%

Ultima Insights   **Ann Arbor, MI**
Software Engineering Intern   *May 2024 - June 2024*
- Redesigned the website interface and added frontend enhancements using Next.js and Material UI to add call logs, dynamic link generation, filters tagging, and contact status tracking, leading to a 60% increase in user traffic
- Interacted with Python backend and databases to ensure accurate delivery of information between UI and data flow
- Maintained an end-to-end Selenium test suite in Python to ensure the robustness and reliability of new features

GlobalShala   **Chicago, IL**
Software Engineering Intern   *August 2022 - October 2022*
- Set up a virtualization environment for threat assessment testing and elimination in a Virtual Machine in Ubuntu to serve Cisco with security tools and information controls
- Implemented software programs like Gephi and used cryptography to prevent 50+ potential computer threats
- Utilized hands-on defense hacking techniques like OS Hardening, Network Scans, CLI, and NIST Standards while in a lab environment to eliminate computer threats and breaches
- Presented findings on how to map computer viruses and eliminate such threats to senior executives

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PROJECTS

ClosetSwap | *JavaScript, React.js, Supabase (PostgreSQL), SCSS, Figma, Vercel*
- Deployed a client-side dynamic React.js web platform marketplace for users to sell, rent, or buy used clothes and accessories with others nearby
- Leveraged Supabase API for efficient storage of all product images and descriptions, and enabled sellers to upload their own products to the website
- Implemented advanced product filtering capabilities, allowing buyers to personally curate a wide range of products
- Ensured secure user authentication and data integrity through the integration of Google OAuth, providing a reliable and user-friendly interface for all transactions

Profit Peak | *Next.js, Tailwind CSS, React.js, Figma, Vercel*
- Developed an innovative web application tailored for small business owners, providing them with an AI-driven solution where they can upload photos of their handmade products to determine optimal pricing
- Used Next.js to build the platform and integrated OpenAI's GPT-4, applying specific prompt engineering techniques, to analyze product photos and generate accurate price estimates
- Designed a user-friendly interface on Figma as a prototype and then implemented with React.js and Tailwind CSS

Traveling Salesperson | *C++, Algorithms, Graphs*
- Designed an adaptable program that takes in data of coordinate points and utilizes heuristic programming and graph theory to efficiently find somewhat optimal paths or the most optimal path that visits each vertex in a map
- Implemented arbitrary insertion and MSTs to write an efficient branch-and-bound heuristic algorithm for the Traveling Salesperson Problem to assist with hypothetical path-finding with minimal constraints

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SKILLS

Languages: C++, Python, Java, JavaScript, Typescript, HTML, CSS, Tailwind CSS, MATLAB
Technologies: React, Next, Figma, Selenium, Pandas, ControlNet, Stable Diffusion, PostgreSQL, Ubuntu
Interests: Singing, Dancing, Photography, Traveling, Hiking, Skin/Hair Care, Movies & TV Shows