Anusha Chinthamaduka

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Education

University of Michigan, *College of Engineering*   **Ann Arbor, MI**
Bachelor of Science in Computer Science, Minor in Data Science   Expected December 2025
- **GPA**: 3.72/4.00
- **Course Highlights**: Data Structures and Algorithms, Discrete Mathematics, Object Oriented Programming, Building Data-Driven Web Applications, Web Systems, Computer Organization, *Computer Security, *Intro to Artificial Intelligence
- **Awards**: Dean's List (all terms), Branstrorm Freshman Prize, 3rd in George M. Landes Prize for Technical Communication
- **Organizations:** Girls Who Code (Outreach Committee, Software Development Life Cycle Work Prep), Rewriting the Code (Member), Microsoft TEALS Program (Teaching Assistant), AI4ALL Ignite (Artificial Intelligence/Machine Learning Fellow)

Experience

Incoming Software Engineering Fellow   **Remote**
Headstarter   July 2024 - Present
- Building and deploying 3 AI projects in 6 weeks using React, Next.js, Firebase, AWS, and Vercel, following CI/CD practices
- Developing an interactive customer support agent by integrating a custom RAG pipeline using OpenAI and Pinecone
- Designing a SaaS product that generates dynamic flashcards on any topic with Llama 3.1 and integrating paywall via StripeAPI
- Creating a web scraper for Rate My Professor, using Pinecone and RAG to provide real-time, relevant answers to user queries

Software Developer   **Remote**
Musa Capital   June 2024 - Sept 2024
- Collaborated with a cross-functional team of 6 to develop 15+ core features and API endpoints for an open source capitalization table management software using MongoDB, Express, React, Node.js, and JavaScript, adhering to an MVC architecture
- Employed a Test-Driven Development approach by writing unit tests with Mocha, Chai, and Jest to ensure high code quality

Quality Assurance Automation Engineer Intern   **Remote**
Texas Education Agency   May 2024 - Aug 2024
- Developed automation scripts for 40+ test cases using Selenium, Java, and POM to test the interface of a PowerBI dashboard
- Monitored test case execution on Jenkins and documented any errors in Jira to ensure continuous quality assurance
- Debugged and refactored more than 50 test scripts for the TEAL login portal, improving code reusability and reliability

Agile Sprinternship Participant   **Remote**
California School Information Services   July 2024 - Aug 2024
- Shadowed a 3-week agile sprint, gaining comprehensive knowledge of agile workflows and methodologies while acquiring hands-on experience with agile practices, sprint ceremonies, and team collaboration on a large-scale data systems project

Large Language Model Team Member   **Ann Arbor, MI**
Michigan Data Science Team   Jan. 2024 - Present
- Engineered a personalized events recommender chatbot that generates FAISS embeddings from event data, uses a custom retriever to find relevant events based on user queries, and integrates OpenAI's API with a custom prompt template

Race Strategy Software Developer   **Ann Arbor, MI**
UM Solar Car Team   Sept 2022 - March 2024
- Collaborated with a team of 3 to design a cloud coverage prediction tool featuring an interactive map using Leaflet, Ipywidgets, and Pandas that displays real-time cloud fraction data and dynamically updates plot based on user-selected date and time
- Authored comprehensive and user-friendly documentation to assist non-technical users in effectively utilizing tools
- Delivered project updates to 50+ team members and worked closely with end users to gather and implement feedback

Projects

- **HappyHabitsAI (2nd place at Techstars Startup Weekend Hackathon) -** Building an AI-powered habit tracking app using React, Next.js, and Firebase that creates personalized plans to help users form new habits and reinforce habit-building
- **CollectionsHub** - Developing a iOS social media bookmark aggregator app with Swift and Supabase that allows users to save content from any platform via the share feature and organize it into custom folders, enabling efficient content management
- **Instagram Clone -** Developed a full-stack Instagram clone integrating server-side rendering with Flask and client-side interactivity using React, featuring RESTful APIs, infinite scrolling, and user engagement features such as comments and likes
- **Search Engine** - Engineered a scalable search engine using MapReduce, TF-IDF, and PageRank for efficient indexing and ranking. Implemented a RESTful API and used multithreading to dynamically generate ranked lists of relevant web pages.

Technical Skills

Python, C/C++, Java, JavaScript, React, HTML/CSS, SQL, Flask, Django, Selenium, TestNG, MongoDB, Matplotlib, Scikit-learn