

Arinjoy (AJ) Das

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EDUCATION

University of Michigan

Ann Arbor, MI

Computer Science, BS, College of Engineering, **GPA: 3.34 / 4.00**

August 2022 - May 2026

Relevant Coursework: Data Structures and Algorithms, Computational Linear Algebra, Statistics and Data Analysis, Programming and Intro to Data Structures, Discrete Mathematics

Honors and Awards: Dean's Honor List

EXPERIENCE

Michigan Music Business Club

Ann Arbor, MI

Vice President, Marketing Team

December 2023 - Present

- Implemented a dynamic content creation system for MMBC's TikTok/Instagram presence, resulting in a 139% increase in interaction and reach, growing from an original base of 450 followers
- Initiated campaigns such as 'New Music Friday', 'Trivia Tuesday', and 'Artist/Member Spotlights', increasing audience engagement and brand visibility across Spotify and Instagram
- Revamped club's website to make it more UX-friendly and intuitive, enhancing member interaction and accessibility
- Pioneered development of "B Major Podcast", orchestrating 8 interviews and discussions on key music industry topics, garnering over 200+ hours of total watch time

PROJECTS

Kappa Theta Pi Life App

November 2023 - Present

- Developed an innovative scheduling feature for existing members with integration with Google Calendar
- Employed Figma skills to prototype aesthetics of user interface design, productively translating client requirements and user feedback into visually appealing and user-friendly layouts

SongSync

Summer 2024

- Designed and developing a web application using advanced audio analysis for playlist creation on Spotify
- Implemented sorting algorithms to manage audio tracks effectively, focusing on features such as energy/danceability
- Applying Python for backend development to analyze and sort music tracks, integrating Spotify API for accessing comprehensive music data and features, and employing FastAPI for efficient and scalable API development

Machine Learning Project

- Leveraged natural language processing, machine learning algorithms, and supervised learning models to automatically classify subjects of media content
- Utilized Container Abstract Data Types, dynamic memory management, map data structures, linked lists, and iterators

SillyQL

- Engineered a high-performance SQL-like database management system, using hash tables and unordered maps
- Optimized system's performance through careful algorithm design and data structure selection

Optimized Drone Delivery Routing

- Coded a drone delivery simulation system utilizing graph algorithms (Prim's and Kruskal's) for cost-effective path optimization and the Traveling Salesman Problem for route refinement
- Modeled complex networks using graphs and priority queues, enabling efficient path computations to reduce operational costs and improve delivery times for drone-based logistics

Portfolio Website

- Conceptualized and developed a visually stunning personal portfolio website, exhibiting experiences and accomplishments
- Showcased creative flair and technical prowess by incorporating functional dynamic sections and animated elements

SKILLS

Computing Languages: C++, Python, MATLAB, C, Java, Julia, R, HTML, CSS

Computer Skills: Microsoft Excel, Powerpoint, Word, Figma for UI/UX design

Interests: DJing, Filmmaking, Hip-Hop/Rap Music, Entrepreneurship, Community Service/Volunteering

Creative Software: Adobe Premiere Pro, Final Cut Pro, Adobe Photoshop, Canva, CapCut