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, *Achievements*: Dean's List — *August 2022 - May 2026*

Relevant Coursework: Intro to Computer Organization, Data Structures and Algorithms, Intro to Computer Security, Multivariable and Vector Calculus, Programming and Intro to Data Structures, Discrete Mathematics

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

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', resulting in a 68% increase in Instagram engagement and 70% increase in Spotify followers
- Revamped club's website, implementing responsive design, intuitive navigation, enhancing overall UX and boosting website engagement by 35%
- Pioneered development of "B Major Podcast", orchestrating 8 interviews and discussions on key music industry topics, garnering over 200+ hours of total watch time

Vibrant NDT Corporation	Albuquerque, NM
Engineering Intern	April 2022 - May 2022

- Conducted extensive resonance testing on various automotive and aerospace components, completing 150+ tests that significantly optimized resonance data analysis, achieving a 95% increase in accuracy and reliability
- Analyzed resonance data using Excel, transforming complex datasets into clear, concise reports, which were presented to a key client in Germany, receiving commendations for clarity and thoroughness
- Collaborated closely with the CEO in reviewing and updating company's Quote Logs, refined the quotation system, upgrading efficiency for company resources and spending

PROJECTS

Kappa Theta Pi Life App	November 2023 - Present

- Developed an innovative scheduling feature for 90+ members with Google Calendar integration using Dart/Flutter
- Employed Figma skills to prototype aesthetics of user interface design, productively translating client requirements

SongSync	Summer 2024

- Constructed a React web application using advanced audio analysis for mood-based playlist creation, integrating Spotify API for accessing comprehensive music data and features, and employing FastAPI for efficient/scalable API development
- Implemented advanced audio analysis algorithms to sort and manage tracks based on mood-related features

HomeHunter	Winter 2024

- Designed and developed an Airbnb-style application, showcasing available apartments and homes for lease in Ann Arbor
- Incorporated location-based search and filtering features to simplify the process of finding and leasing properties
- Utilized responsive design principles to ensure optimal performance across various devices and screen sizes

Optimized Drone Delivery Routing	Winter 2024

- Architected 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

Machine Learning Project	Fall 2023

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

ADDITIONAL SKILLS

Programming Languages: C++, Python, MATLAB, Julia, R, Dart, Flutter, Kotlin, Java, C

Web Development: HTML, CSS, React, Next.js