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: Data Structures and Algorithms, Computer Organization, Computer Security, Computational Linguistics, Multivariable and Vector Calculus, Statistics & Data Analysis, Discrete Mathematics

Languages/Technologies: C/C++, Python, API Integration, SQL, Dart, Flutter, Figma

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

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 to optimize 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 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
- Built iOS widgets for the Kappa Theta Pi Life App using Flutter/Dart, enhancing user experience. Created hi-fi wireframes and prototypes in Figma, ensuring seamless deployment on iPhones, now used by 80+ users.
- 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
- Utilized SQL to construct a database for efficient song access and playlist management, employing advanced audio analysis algorithms to match tracks based on mood-related features like energy, tempo, and danceability.

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

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
- Applied Container Abstract Data Types, dynamic memory management, map data structures, linked lists, and iterators