JALEEL DRONES-AKINS

312-539-3457 | jdronesa@umich.edu | https://www.linkedin.com/in/jaleelda1 | https://github.com/JaleelADA

EDUCATION

University of Michigan, Ann Arbor **Ann Arbor, MI**
Bachelor of Arts in Computer Science **May 2027**
Relevant Coursework: Calc I, Python Programming Sciences, Programming Concepts C++
Awards: Jackie Robinson Foundation Scholar, Boeing Engineering Enrichment Track (BEET) Scholar

PROFESSIONAL EXPERIENCE

Headstarter AI **Ann Arbor, MI**
Software Engineering Fellow **July 2024 - October 2024**
- Led the frontend development of an AI-powered customer support application in a team of 3, utilizing NextJS,Vercel, and React to enhance user experience and streamline support processes
- Engineered 4 responsive web apps using ReactJS and NextJS, integrating Firebase for data storage and authentication
- Implemented advanced Git workflows including feature branching and CI/CD pipelines

University of Chicago **Chicago, IL**
Data Science Assistant **May 2022 - August 2022**
- Collaborated with a cross-functional team developing an AI-powered image recognition system capable of accurately identifying fish species with a success rate of 97%, revamping efficiency and reducing manual identification errors
- Analyzed a dataset of over 1,000 fish images using Python and PyTorch, contributing to a project that addressed overfishing and restructured traceability in seafood supply chains
- Developed a multi-task learning model to simultaneously predict fish species, weight, and length, reducing the need for separate models and speeding up data processing by 30%

LEADERSHIP & PROFESSIONAL DEVELOPMENT

National Society of Black Engineers (NSBE) **Ann Arbor, MI**
Social Committee Member **October 2024 - PRESENT**
- Organized and executed 6 - 8 social events annually, fostering networking opportunities for 100+ NSBE members
- Orchestrated event logistics, budgeting, and promotion with a 2 - 4 person team, optimizing a $2,500 budget to deliver 6+ successful events

PROJECTS

WellNest | (SwiftUI, Firebase, Swift, Xcode) **November 2024**
- Designed and prototyped user-friendly interfaces for a mental wellbeing platform leveraging Figma, focusing on ease of navigation and engagement to improve user mental health tracking
- Integrated Firebase for real-time user authentication and data storage, supporting 100+ concurrent connections with 99.95% system uptime during stress testing

VibeStream | (Django, Python, JavaScript, Spotify API) **October 2024**
- Integrated Django for robust server-side processing and efficient data management, handling over 100,000 music tracks and playlists with minimal latency
- Connected Spotify API for real-time music data retrieval, achieving an average response time of less than 200ms for API requests

Personal Website | (HTML, CSS, JavaScript, DNS) **August 2024**
- Leveraged GitHub Pages for website deployment, ensuring 24/7 availability and streamlining the update process, maintaining 99.9% uptime and facilitating easy updates
- Implemented interactive elements such as dynamic navigation and hover effects to boost user engagement

Chi-Covid | (Python, Kepler.gl, Jupyter Notebooks) **May 2024**
- Processed and analyzed a GeoJSON dataset to calculate COVID-19 case and death rates per 1,000 residents, identifying high-risk areas within city limits
- Utilized GeoPandas and Pandas for data cleaning, transformation, and aggregation, enhancing data accuracy by 20%

TECHNICAL SKILLS

Languages/Frameworks: Python, C++, HTML, CSS, JavaScript, Swift, ReactJS
Tools: Figma, Google Cloud Platform (GCP), Docker, Git, GitHub Actions, XCode,VSCode, Firebase