JALEEL DRONES-AKINS

(312) 539-3457 | jdronesa@umich.edu | Chicago, IL | linkedin.com/in/jaleelda1| jaleelada.github.io

Education

University of Michigan, Ann Arbor   **2023-2027**
Bachelor of Art in Computer Science
- Relevant Coursework: Calc I, Discrete Mathematics, Python Programming, Programming Concepts in C++

Experience

Software Engineering Fellow | Headstarter AI   **July 2024 - Present**
Ann Arbor, MI   *Javascript | ReactJS | NextJS | Firebase | AWS*
- Collaborated on the creation of an AI-powered customer support application as part of a team of 3 engineering fellows, utilizing Next.js,Vercel, and React to enhance user experience and streamline support processes.
- Developed web applications using ReactJS and NextJS, integrated with Firebase for real-time data storage and authentication
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns

Data Science Assistant | University of Chicago   **May 2022 - August 2022**
Chicago,IL   *Python | PyTorch | Google Cloud*
- Collaborated with a cross-functional team developing an AI-powered image recognition system capable of accurately identified fish species with a success rate of 97%, improving efficiency and reducing manual identification errors
- Interned with a tech startup to develop innovative solutions aimed at tackling overexploitation of marine resources and countering unregulated fishing practices, contributing to global conservation efforts
- Presented comprehensive findings and recommended actionable solutions to address said issue, promoting awareness and informed decision-making within data science

Projects

Front-End Developer | Personal Website   **August 2024**
Web Development & Design   *HTML | JavaScript | CSS | DNS*
- Designed and launched a responsive personal portfolio website, increasing online visibility by 100%.
- Implemented interactive elements such as dynamic navigation and hover effects to enhance user engagement.
- Deployed the website on GitHub Pages, ensuring 24/7 availability and easy access for potential employers and collaborators.

Data Analyst | Covid-19 Data visualization   **May 2024**
Data analysis & visualization   *Python | Kepler.gl | Jyputer Notebooks*
- Processed and analyzed a GeoJSON dataset to calculate COVID-19 case and death rates per 1,000 residents
- Utilized GeoPandas and Pandas for data cleaning, transformation, and aggregation, improving data accuracy by 20%
- Created interactive maps using Kepler.gl to visualize spatial distributions of COVID-19 impact across Chicago's ZIP codes

Data Science Assistant | Remora Fishing Traceability   **August 2022**
Computer vision product enhancement   *Python | Google Cloud Platform | PyTorch | Git*
- Developed models to perform semantic segmentation, species classification, weight prediction, and length prediction.
- Optimized model performance by implementing custom composite loss functions and uncertainty-weighted losses, using PyTorch and PyTorch Lightning to ensure precise data handling and analysis
- Utilized a dataset of 1000+ fish images, split into training, validation, and testing sets.

Leadership Experience

NSBE   **Ann Arbor, MI, USA**
Junior E-Board   *January 2024 - Present*
- Facilitated execution of efficient chapter meetings by providing comprehensive support to the Executive Board, member engagement increasing by 20% through strategic meeting planning and execution
- Led the development and implementation of an innovative ice-breaker initiative, increasing new member retention by 30% by fostering a welcoming and inclusive environment during chapter events
- Organized and executed three major chapter events (Social, Professional, and Community), attracting over 150 attendees in total and revamping chapter visibility

Technical Skills

Languages: Python, HTML/CSS, C/C++, JavaScript
Development & Deployment Tools: Docker, Git, Visual Studio Code, Anaconda, Google Cloud Platfrom (GCP), AWS
Libraries/Frameworks: PyTorch, PyTorch Lightning, NextJS, ReactJS
Other Skills: Excel/Sheets/Powerpoint, Detail Oriented, Adaptable, Project Management