

JALEEL DRONES-AKINS

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Education

University of Michigan, Ann Arbor

2023-2027

Bachelor of Art in Computer Science

- Relevant Coursework: Calc I, 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 micro-service 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
- Analyzed a dataset of over 1,000 fish images using Python and PyTorch, contributing to a project that addressed overfishing and improved traceability in seafood supply chains.
- Deployed AI models on Google Cloud Platform, enabling scalable and efficient processing of large datasets in real-time.

Projects

Front-End Developer | Personal Website

August 2024

Web Development & Design

HTML | JavaScript | CSS | DNS

- Spearheaded and launched a responsive personal portfolio website, increasing online visibility
- 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

Front-End Developer | Item-Tracker

August 2024

Inventory management system

React | Firebase | JavaScript

- Integrated React for front-end development, streamlining user interaction and improving system performance through modular component design
- Designed and implemented dynamic features including search, filtering, and pagination, enhancing scalability to handle over 1,000 inventory items
- Integrated Firebase for real-time database management and user authentication, enhancing system security and data reliability

Data Analyst | Covid-19 Data visualization

May 2024

Data analysis & visualization

Python | Kepler.gl | Jupyter 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

- Implemented 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%
- Optimized model performance by applying custom composite loss functions, improving prediction accuracy for weight and length by 15%
- Curated and pre-processed a dataset of 1,491 fish images, ensuring balanced class distribution across training (76%), validation (19%), and testing (5%) sets to optimize model performance

Technical Skills

Languages: Python, HTML/CSS, C/C++, JavaScript

Development & Deployment Tools: Docker, Git, Visual Studio Code, Anaconda, Google Cloud Platform (GCP), AWS

Libraries/Frameworks: PyTorch, PyTorch Lightning, NextJS, ReactJS

Other Skills: Excel/Sheets/Powerpoint, Detail Oriented, Adaptable, Project Management