

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 - October 2024

Ann Arbor, MI

Javascript | ReactJS | NextJS | Firebase | AWS

- 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 applications using ReactJS and NextJS, integrating Firebase for real-time data storage and authentication
- Applied advanced Git workflows and micro-service architectures learned from Amazon, Bloomberg, and Capital One engineers, avoiding deployment errors and improving code quality

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 identifying 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 restructured 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 | WellNest

November 2024

Mental Health Social Media Platform (In Development)

SwiftUI | Firebase | Swift

- Crafted intuitive UI/UX designs with 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.
- Designed the Mood and Wellness Check-In Tool, which tracks daily emotional patterns and provides personalized insights, improving user reflection through trend tracking during a pilot group study

BackEnd Developer | VibeStream

October 2024

Music Streaming and Playlist Management System

Django | Spotify API | JavaScript | Python

- Integrated Django for robust server-side processing and efficient data management, handling over 100,000 music tracks and playlists with minimal latency
- Implemented dynamic features including playlist fetching, search functionality, and detailed views for artists, albums, and tracks, enhancing user engagement
- Integrated Spotify API for real-time music data retrieval, achieving an average response time of less than 200ms for API requests

Data Analyst | Covid-19 Data visualization

May 2024

Data analysis & visualization

Python | Kepler.gl | Jupyter Notebooks

- Created interactive maps using Kepler.gl to visualize spatial distributions of COVID-19 impact across Chicago's ZIP codes
- Utilized GeoPandas and Pandas for data cleaning, transformation, and aggregation, improving data accuracy by 20%
- Processed and analyzed a GeoJSON dataset to calculate COVID-19 case and death rates per 1,000 residents, identifying high-risk areas within the city limits

Front-End Developer | Personal Website

August 2024

Web Development & Design

HTML | JavaScript | CSS | DNS

- Spearheaded and launched a responsive personal portfolio website, boosting online visibility
- Implemented interactive elements such as dynamic navigation and hover effects to boost user engagement
- Leveraged GitHub Pages for website deployment, ensuring 24/7 availability and streamlining the update process, maintaining 99.9% uptime and facilitating easy updates

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