Akunna Onyekachi

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U.S. Citizen Open to Relocation and Remote, Hybrid, On-site, and Travel positions

SUMMARY

Visionary full stack | GIS developer passionate about the intersections of GIS, data science, and app development. Eager to leverage expertise in integrating GIS and data science into mobile and web services to drive impactful solutions for innovative organizations. Proven track record in delivering value through strategic implementation of advanced technologies. Committed to continuous learning and making a significant impact in the tech landscape.

CAREER GOALS

Dedicated to exploring new avenues in GIS development, data science, and full-stack app development primarily with Python, R, JavaScript frameworks, React Native, and Swift. Keen on roles that offer opportunities to:
1. Contribute to the development and maintenance of high-performance GIS software development solutions
2. Utilize current and emerging data science technologies to drive innovation, creativity, and efficiency
3. Create, design, and enhance functional and interactive mobile and web applications

TECHNICAL SKILLS

- **Back-End Development:** Django, Express.js, FastAPl, Flask, and Node.js
- **Cloud Computing Platforms:** Amazon S3, and Google Cloud Storage
- **Databases:** Firebase, MongoDB, MySQL, and PostgreSQL
- **Data Science:** MATLAB, Python, and R
- **Front-End Development:** BootStrap, CSS, HTML, JavaScript, React.js, Tailwind CSS, and TypeScript
- **GIS:** ArcGIS, GeoServer, Google Earth Engine, Leaflet.js, Mapbox, OpenLayers.js, and QGIS
- **Mobile App Development:** React Native, Swift, and Swift Ul

WORK EXPERIENCE

Software Developer and Data Scientist, Akunna Tech Studio**,** Chapel Hill, NC   Aug 2023 - Present
- Created cloud environments alongside full-stack web and mobile applications, including SaaS solutions
- Pioneered independent data science projects, including data mining, machine learning, and web scraping endeavors, amplifying the functionality of web and mobile app projects
- Engineered dynamic and interactive visualizations, illuminating complex patterns and trends for impactful data storytelling
- Current Gigs: Front end development of The Kenya Bankers' (i.e. a Financial Institution based in Nairobi, Kenya) banking app, and tutoring

GIS Developer, DataWorks NC**,** Durham, NC   Apr 2024 – July 2024
- Analyzed assessment and taxation issues in high-value commercial properties, identifying over $50 million in potential uncollected tax revenue
- Automated data collection and processing using R scripts for census, real estate, property tax, and eviction case records for integration into an interactive web application for mapping the demographic metrics of Durham residents
- Contributed to the development and improvement of the web application, using Vue.js and other JavaScript frameworks to visualize spatial data from PostGIS and other sources

Geospatial Data Engineer Intern, Durham Public Schools, Durham, NC   May - Aug 2023
- Demonstrated expertise in using GIS tools like ArcGIS and Python's ArcPy for data acquisition, population density trend analysis, and map creation, while optimizing census data workflows with automation tools in R
- Implemented scheduling and API integration to automate data retrieval and updates, saving about 5 hours of manual effort weekly
- (Codes available on GitHub, including additional GIS projects)

SOFTWARE PROJECTS

Akunna Writes Blog Web App (Built with: Firebase, Vite.js, React.js, Firestore, and Tailwind CSS)
- Developed and deployed an app for posting short stories and translations in various languages, enabling users to log in, view, and contribute
- Purpose: fosters a multicultural community by providing a platform for diverse voices to share narratives and translations

Faithify Mobile App (Built with: Expo Go, React Native, JSON, TypeScript, Firebase, Native Wind, and Firestore)
- Created an iOS and Android compatible Christian based mobile platform for theme-based scripture verses and interactive quizzes to strengthen memorization skills
- Purpose: inspires users to deepen their faith through engaging content and personalized learning experiences, making scripture memorization enjoyable

Google Maps Replica (Built with: Mapbox, JavaScript, HTML, and CSS)
- Developed an interactive map that gets current location and estimates travel time between points with various transportation modes
- Purpose: offers an intuitive navigation tool that simplifies travel planning and helps users find the quickest routes

Job Application Platform with ATS (Built with: HTML, Tailwind CSS, BootStrap, JavaScript, Node.js, Express.js, Google Cloud Storage, and Python)
- Leveraged data mining insights to develop a mobile responsive job application web platform, functioning as an applicant tracking system
- Purpose: streamlines hiring by automating applicant evaluation and improving candidate selection efficiency

Nexus Social Media App (Built with: MongoDB, Mongoose, Node.js, Express.js, React.js, Tailwind CSS, and Vite)
- Engineered a mobile responsive therapy alternative social media platform for anonymous sharing of self-help resources and tools
- Purpose: serves as a free therapy alternative app, creating a safe space for users to explore mental health resources and support, fostering a community of healing and shared experiences

(Additional information, links, and projects available on Portfolio and GitHub)

EDUCATION

The University of North Carolina at Chapel Hill, NC   Aug 2019 - Dec 2023
- **Majors:** M.S. in Information Science (Web/Mobile App Development and Data Science Focused) and B.S. in Environmental Science (Geographic Information Systems Focused)
- **Coursework:** UX/UI, Software Development Life Cycle, APIs, CI/CD, SQL/NOSQL Databases, Scalability, Information Retrieval, Data Mining, Cloud Computing, Remote Sensing and Spatial Analysis, and Geospatial Data Analysis