

# Akunna Onyekachi

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

## SUMMARY

Visionary full-stack developer with a passion for integrating GIS and data science into mobile and web applications in cloud and database environments. Eager to leverage expertise to drive innovative solutions for organizations. Proven track record of delivering value through the strategic implementation of advanced technologies. Committed to continuous learning and making a meaningful contribution to the tech landscape.

## CAREER GOALS

Dedicated to exploring new avenues in GIS, data science, and full-stack app development primarily using Python, R, JavaScript frameworks, React Native, and Swift. Keen on roles that offer opportunities to:

- Contribute to the development and maintenance of high-performance GIS software development solutions
- Utilize current and emerging data science technologies to drive innovation, creativity, and efficiency
- Create, design, and enhance functional and interactive mobile, web applications, and websites

## TECHNICAL SKILLS

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

## 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: to foster 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, and Firestore)

- Created an iOS and Android compatible Christian based mobile platform for theme-based scripture verses and an interactive quiz to strengthen memorization skills
- Purpose: to inspire 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: to offer 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: to streamline 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.js)

- Engineered a mobile responsive therapy alternative social media platform for anonymous sharing of self-help resources and tools
- Purpose: to serve 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