

# Akunna Onyekachi

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

## SUMMARY

Dynamic and innovative full-stack GIS developer with a passion for exploring the intersections of GIS, data science and app development. Eager to leverage expertise in integrating GIS and data science applications into mobile and web services within cloud and database environments to drive impactful solutions and contribute to the success of forward-thinking organizations. Proven track record of delivering value through innovative problem-solving and strategic implementation of cutting-edge technologies. Ready to embark on a journey of continuous learning and growth while making a significant impact on the ever-evolving landscape of technology.

## 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:

- 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 and web applications

## 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:** C#, 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:** Dart, Flutter, React Native, Swift, and Swift UI

## WORK EXPERIENCE

**Software Developer and Data Scientist**, Akunna Tech Studio, Chapel Hill, NC Aug 2023 - Present

- Led cloud computing initiatives, spearheading full-stack web and mobile app development projects
- 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 property under assessment and under taxation issues in high-value commercial buildings and apartments, identifying over \$50 million in potential uncollected tax revenue
- Automated data collection, processing, and analysis using R scripts for census, real estate, property tax, and eviction case records
- Developed interactive web-based mapping applications using vue.js and other JavaScript frameworks and displayed spatial data from PostGIS and other data sources within them

**Geospatial Data Engineer Intern**, Durham Public Schools, Durham, NC May - Aug 2023

- Showcased prowess in GIS application development, driving data acquisition and analysis
- Designed automation tools in R, optimizing census data collection, integration, and processing workflows
- Utilized ArcGIS and Python for population density trend analysis, student growth projection, and maps creation
- Implemented scheduling mechanisms and API integration, automating data retrieval and updates, saving approximately 5 hours of manual effort per week
- (Codes available on GitHub, including additional GIS projects)

## SOFTWARE PROJECTS

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

### Akunna Writes Blog Web App

- Developed and deployed an app for posting short stories and translations in various languages, enabling users to log in, view, and contribute
- Utilized: Firebase, Vite.js, React.js, Firestore, and Tailwind CSS

### Faithify iOS App

- Created a dynamic mobile platform for theme-based scripture verses and interactive quizzes to strengthen memorization skills
- Integrated cloud platform to store and retrieve verses
- Utilized: Swift, SwiftUI, JSON, Firebase, Alamofire, and Combine

### Google Maps Replica

- Developed an interactive map, which gets current location and estimates travel time between points with various transportation modes
- Utilized: Mapbox, JavaScript, HTML, and CSS

### Job Application Platform with Automated Evaluation

- Leveraged data mining insights to develop a mobile-responsive job application web platform
- Engineered a RESTful API for secure applicant data storage on a cloud platform
- Created an Applicant Tracking System to automatically grade the responses, resumes, and cover letters of applicants
- Utilized: HTML, Tailwind CSS, Bootstrap, JavaScript, Node.js, Express.js, Google Cloud Storage, and Python

### Nduka Social Media App

- Engineered a safe platform for sharing stories of overcoming adversity
- Implemented user content management with CRUD operations and anonymous reporting features
- Enabled anonymous account creation and the personalization of user avatars
- Utilized: MongoDB, Mongoose, Node.js, Express.js, React.js, Tailwind CSS, Postman, and Vite

## EDUCATION

The University of North Carolina at Chapel Hill, NC Aug 2019 - Dec 2023

- Secondary Major:** Information Science, M.S (Web/Mobile App Development, and Data Science Focused)
- Primary Major:** Environmental Science, B.S (Geographic Information Systems Focused)
- App Development Coursework:** Full-Stack Dev, UX/UI, Data Flow, APIs, CI/CD, Security, SQL/NOSQL Databases, and Scalability
- Data Science Coursework:** Information Retrieval, Data Mining, Cloud Computing, and Geospatial Data Analysis