

## AKUNNA ONYEKACHI

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Open to: Remote, Hybrid, and On-site positions

Dynamic and innovative full-stack GIS developer with a passion for exploring the intersections of GIS, data science and app development. Continuing to leverage expertise in integrating GIS and data science applications into mobile and web services within cloud 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

Passionate about exploring new avenues in GIS development, data science, and full-stack app development primarily with Python, R, JavaScript frameworks, Flutter, and Swift. Seeking opportunities to leverage my skills in optimizing data science, GIS software and web and mobile applications in cloud environments and contributing to the success of dynamic organizations. I am particularly interested in roles that allow me 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, FastAPI, Flask and Node.js
- **Cloud Computing Platforms:** Amazon S3, Google Cloud Storage
- **Databases:** Firebase, MongoDB, MySQL and PostgreSQL
- **Data Science:** C#, MATLAB, Python, R
- **Front-End Development:** Bootstrap, CSS, HTML, JavaScript, React.js, Tailwind CSS, TypeScript
- **GIS:** ArcGIS, GeoServer, Google Earth Engine, Leaflet.js, OpenLayers, QGIS
- **Mobile App Development:** Dart, Flutter, Swift and SwiftUI

### WORK EXPERIENCE

**Software Engineer 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

**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 five hours of manual effort per week
- (Codes available on GitHub, including additional GIS projects)

### SOFTWARE PROJECTS

(Additional information and projects available on website and GitHub)

#### 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

#### Faithify iOS App

- Created a dynamic 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

#### Quasar Job Board Platform

- Developed an intuitive front-end job board platform for tech jobs consisting of modern and interactive features
- Utilized: React.js, Material UI, JavaScript XML, Vite, HTML, Hooks, and Tailwind CSS

#### 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

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 and NOSQL Databases, Scalability
- **Data Science Coursework:** Information Retrieval, Data Mining, Cloud Computing, Geospatial Data Analysis