Akunna Onyekachi

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SUMMARY

Visionary full-stack developer with 2 years of experience in the field, passionate about integrating GIS and data science into web and mobile apps in cloud and database environments. Focused on creating modern solutions for educational purposes, to build community and enhance mental well-being. Committed to leveraging advanced technologies to make meaningful contributions.

CAREER GOALS

Dedicated to exploring new avenues in GIS, data science, and full-stack app development primarily using Python, R, JavaScript frameworks and libraries, React Native, and Leaflet. 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, web applications, and websites

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, Geospatial Data Analysis

TECHNICAL SKILLS

- **Back-End Development:** Drizzle ORM, Flask, Node.js, Ruby
- **Databases:** Firebase, MongoDB, Neon (PostgreSQL), pgAdmin (PostgreSQL)
- **Front-End Development:** Next.js, Razor, React.js, Tailwind CSS, TypeScript
- **Cloud Computing Platforms:** Amazon S3, Azure, Google Cloud
- **Data Science:** MATLAB, Python, R
- **GIS:** ArcGIS, GEE, Leaflet.js, Mapbox.js, OpenLayers.js, QGIS
- **Mobile App Development:** React Native, Swift, SwiftUI

WORK EXPERIENCE

Full Stack Developer, ShareBibles, Remote   Nov 2024 - Present

- Engineered a scalable admin platform for Bible distribution using Firebase, Mapbox.js, Next.js, and PostgreSQL, supporting global ministry operations, while collaborating with the team through Git for efficient version control
- Integrated Drizzle ORM for real-time data tracking and analysis, helping teams optimize their sharing strategies
- Designed intuitive, mobile-friendly interfaces with Tailwind CSS and ShadCN to enhance user experience for volunteers and leaders

GIS Developer- Contract, 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, with a focus on uncovering unusually high property taxes in neighborhoods
- Developed and enhanced a demographic mapping web application (i.e, the Durham Compass), utilizing Mapbox.js, Vue.js, Node.js, and other JavaScript tools to visualize geospatial data from PostGIS and other sources, helping to comprehend the census and demographic makeup of Durham
- Automated data collection and processing by writing R scripts to input census, real estate, property tax, and eviction case records, among other data, as metric data for the interactive web application

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, with a focus on predicting future student growth patterns to support resource allocation and address student overcrowding
- Designed and implemented complex geospatial data development projects and technology initiatives, including Orthoimagery, AddressNC, Seamless Parcels, and geospatial OpenData efforts like NC OneMap
- Developed R scripts to interact with external data sources, extracting parcel and location coordinate files for automated updates, saving approximately 5 hours of manual effort weekly
- (Codes available on GitHub, including additional GIS projects)

PERSONAL SOFTWARE PROJECTS (open for collaboration, usage, and implementation)

Akunna Writes (Built with: Firebase, Vite.js, React.js, Tailwind CSS)

- Developed and deployed an app for posting short narratives and translations in various languages, enabling users to log in, view, and contribute
- Purpose: To promote Igbo language literacy and cultivate a multicultural community by offering a platform for diverse voices to share stories and translations, while also serving as a source of personal motivation during challenging times.

Faithify (Built with: Expo Go, React Native, TypeScript, Firebase)

- Developed a cross-platform Christian mobile app featuring themed scripture verses and an interactive quiz for memorization
- Purpose: To deepen faith and enhance scripture memorization through engaging, personalized content

Neptune Technologies Application Platform (Built with: HTML, Tailwind CSS, BootStrap, JavaScript, Node.js, Express.js, Google Cloud Storage, Python)

- Leveraged data mining insights to develop a mobile-responsive job application web platform with a complementary applicant tracking system
- Purpose: To streamline hiring with an ultra-selective ATS that automates evaluation and identifies the top 10% of applicants based on resumes, form inputs, and cover letter quality

Nexus (Built with: MongoDB, Mongoose, Node.js, Express.js, React.js, Tailwind CSS, Vite.js)

- Engineered a mobile responsive therapy alternative social media platform for anonymous sharing of self-help resources and tools
- Purpose: To provide a free therapy alternative app fostering mental health support and community healing, while gaining experience in designing web apps with left bars, right bars, and a central content section

The Counterfeit (Built with: Next.js, Firebase, Neon (PostgreSQL), Contentful Headless CMS, Tailwind CSS, Leaflet.js, TypeScript)

- Developed a web-based, newspaper-themed eschatological app to help Christians explore and truly comprehend the apocalyptic books of the Bible through the visual sharing of evidence, using interactive maps, resource sharing, online discussion forums, and a newsletter for updates
- Purpose: To engage the younger generation, especially those who prefer browsing the internet over reading, by providing an interactive way to understand biblical prophecy, while exploring related themes in other Abrahamic faiths

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