Chapel Hill, NC   (919)-780-1919

AKUNNA ONYEKACHI

www.linkedin.com/in/akunna1   akunna1mail@gmail.com

www.github.com/akunna1   www.akunnatechstudio.com

EDUCATION

Chapel Hill, NC　　　　　**University of North Carolina at Chapel Hill**　　　　　**Aug 2019-Dec 2024**

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

EMPLOYMENT

Software Engineer and Data Scientist　　　　　**Akunna Tech Studio**　　　　　**Aug 2023-Present**

- Leveraged knowledge in Full Stack Web development, JavaScript, Git and debugged using Chrome Developer Tools.
- Developed independent data science projects, including data mining and web scraping initiatives, to enhance the functionality of full-stack web and mobile app development projects.
- Created dynamic and interactive visualizations to communicate complex patterns and trends for data storytelling.

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

- Designed automation tools on R to streamline census data collection, integration, and processing workflows.
- Employed ArcGIS and Python for population density trend analysis, student growth projection, and maps creation.
- Developed scheduling mechanisms and integration with APIs to automate data retrieval and updates, saving approximately five hours of manual effort per week.

SOFTWARE PROJECTS

Personal Website: *www.akunnatechstudio.com* (for additional information and projects)

Job Application Platform with Automated Evaluation

- Developed a job application web platform featuring the company description, job role, and an application form
- Built a RESTful API to securely store applicant data in a cloud storage platform
- Automated each application review with Python for grading applicant responses, resumes, and cover letters
- Utilized: HTML, Tailwind CSS, JavaScript, Node.js, Express.js, Google Cloud Storage, Python, Git, Ubuntu

Faithify Android App

- Generated random Bible verses focused on themes of love, grace, faith, hope, and overcoming challenges
- Offered interactive quizzes where users can test their knowledge of scripture verses and reinforce memorization
- Provided flashcards with scripture verses and corresponding themes to aid in memorization and reflection
- Allowed users track their progress in memorizing scripture and set personalized goals for their journey
- Utilized: Kotlin, Firebase, Retrofit, Picasso

Polar Functions Music Visualizer

- Created a dynamic polar function music visualizer with cross-platform functionality, providing users with a unique and engaging representation of various YouTube music and an array of song selections
- Optimized performance to support a high volume of concurrent users without sacrificing user experience
- Utilized: React, Node.js, D3.js, HTML, CSS, BootStrap, YouTube API, WebSockets, Web Audio API, FastAPI

Nduka iOS Social Media App

- Enabled anonymous account creation and the personalization of avatars for safe, supportive sharing
- Launched comprehensive user content management with CRUD operations.
- Enabled anonymous reporting and support resources for user harassment and misconduct
- Provided a safe platform for sharing stories of overcoming adversity, fostering support and inspiration for those dealing with sadness and depression
- Utilized: Xcode AlamoFire, Swift, MongoDB, Mongoose, Node.js, Express.js, React Native

SKILLS

Software: *(proficient):* R, Node.js, Swift, MATLAB, React, C#, Java, *(familiar):* jQuery, Docker, Angular, Flask, PHP, TypeScript, SQL