

Chapel Hill, NC

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# AKUNNA ONYEKACHI

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## EDUCATION

Chapel Hill, NC

University of North Carolina at Chapel Hill

Aug 2019-Dec 2024

- **Secondary Major:** Information Science, M.S (Web Development and Data Science Focused)
- **Primary Major:** Environmental Science, B.S (Geographic Information Systems Focused)
- **Web 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 Solutions

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 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.akunnaportfolio.com](http://www.akunnaportfolio.com) (for additional information and projects)

### University Website and Application Form

- Engineered an interactive university website featuring multiple pages and a dynamic university application form.
- Implemented a RESTful API for seamless data interaction and storage of applicant information in a cloud platform.
- Integrated Action Mailer to automate the sending of confirmation emails upon successful form submission.
- Incorporated a secure payment section within the application form, providing a convenient payment process.
- Utilized: HTML, CSS, JavaScript, Ruby on Rails, Amazon S3, PayPal SDK, Git, Docker

### 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, TypeScript, Node.js, Express.js, Google Cloud Storage, Python, Git, Docker

### 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, Django

### Social Media App with Geographical Restrictions

- Developed a location-specific social media app using GIS technologies, restricting account creation to residents, ensuring a community-centric user experience.
- Enabled users to personalize avatars and names for a creative and secure online experience.
- Launched comprehensive user content management with CRUD operations.
- Utilized: Google Maps Geocoding API, PostgreSQL, PostGIS, Node.js, Vue.js, ASP.NET Core, Azure DevOps, HTML5 Canvas API, AJAX

## SKILLS

**Software:** (*proficient*): R, Node.js, Python, JavaScript, HTML/CSS, IDEs, SQL, (*familiar*): Vue, jQuery, TypeScript, React, Docker