


# SYSCILY BROWN

## Software Engineer

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 Washington, D.C.

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## PROFILE

Results-driven developer with comprehensive experience in full-stack development and over 10 years of teaching experience. Proven expertise in cloud computing (AWS) and agile methodologies. Passionate about continuous learning and leveraging emerging technologies to drive innovative solutions. Seeking opportunity to leverage my educational background, interpersonal skills, and technical expertise and contribute to innovative projects in a challenging and dynamic work environment.

## SKILLS AND QUALIFICATIONS

- MongoDB
- Express
- React
- Node.js
- JavaScript
- TypeScript
- Python
- HTML
- Cloud Computing (AWS)
- Data Analysis
- Communication
- Problem Solving

## CAREER EXPERIENCE

**Software Engineering Fellow** | Headstarter | Remote

July 2024 – Present

**Working as a Software Engineering Fellow, developing AI-driven solutions using modern web development frameworks and libraries**

- Collaborating on impactful projects during weekly hackathons consistently meeting tight deadlines
- Managing and delivering a high-impact software solution aimed at engaging 1000+ users
- Implementing CRUD functionalities, search, and filter features to enhance user experience
- Building and deploying web applications with Next.js, Material UI, Vercel, AWS EC2, and Firebase utilizing CI/CD processes for seamless integration and continuous deployment

**STEM Teacher** | District of Columbia Public Schools | Washington, D.C.

July 2022 – Present

**Serving as an elementary STEM Teacher**

- Designed and implemented engaging and interactive lesson plans, focused on developing critical thinking and problem-solving skills
- Fostered and nurtured strong, personalized relationships with a diverse range of stakeholders, including students, parents, and colleagues, offering tailored support and guidance as required
- Utilized data analysis and visualization tools to assess student progress and customize teaching strategies, resulting in a median improvement of 119% in student performance

**Full Stack Developer** | TechLeap | Remote

May 2024 – June 2024

**Served as a volunteer developer to create a user-friendly travel app utilizing AI to generate custom itineraries based on user preferences**

- Utilized Adalo as a no-code platform to build the backend, streamlining development processes
- Worked closely with UX/UI designers using FigJam to ensure a seamless and intuitive user experience
- Tested and debugged the app to ensure smooth performance and reliability
- Documented development processes, including integration methods, data handling, and user interface specifications

**Full Stack Developer** | Transparent Salary Project | Remote

June 2023 – May 2024

**Served as a volunteer full stack developer for the Transparent Salary Project to create user-friendly websites that were responsive, accessible, and easy to use**

- Developed and maintained websites ensuring responsiveness and accessibility
- Collaborated with UX Designers to create landing pages using HTML, CSS, JavaScript, jQuery, and CMS tools
- Researched and integrated free and paid API plugins; developed custom APIs for educational resources

Served as the Lead Math Educator for the instructional team, spearheading comprehensive curriculum delivery across the STEM umbrella

- o Facilitated biweekly professional development workshops aimed at supporting grade teams in enhancing their data analysis skills
- o Achieved up to 35% growth in classroom performance across three classrooms through tailored teaching approaches and data-driven strategies
- o Led weekly grade team meetings focused on inquiry-based Math content exploration and collaboration, fostering alignment and effectiveness in teaching practices

## SELECTED PROJECTS

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**Rate My Maester** | <https://rag-game-of-thrones.vercel.app/>

Environment: Next.js, React, Pinecone, OpenAI API

**A Game of Thrones-themed chatbot that uses Retrieval-Augmented Generation (RAG) to merge detailed character data with AI-generated insights**

- o Developed a captivating interface with React and Next.js, enhancing user interaction and thematic immersion.
- o Integrated Pinecone and OpenAI API to combine detailed character data with AI-generated responses for a rich, informative experience.
- o Enabled users to search for and explore comprehensive character insights, utilizing RAG techniques for dynamic and context-aware interactions.
- o Optimized performance with efficient data retrieval and response generation, ensuring a seamless and engaging chatbot experience.

**NutriRecipe** | <https://nutrirecipe-sb.com>

Environment: React, JavaScript, Bootstrap, Material-UI, Framer Motion, Spoonacular API

**A web app enabling users to easily search and save recipes based on ingredients and macronutrients**

- o Designed a clean and modern UI with React-Bootstrap, Material-UI, and Splide improving user engagement and satisfaction
- o Leveraged Spoonacular API to provide users with easy access to detailed recipe information
- o Streamlined the organization of favorite recipes, offering a user-friendly search experience based on ingredients and nutritional requirements
- o Integrated Spoonacular API seamlessly into the server-side using fetch for making HTTP requests, JavaScript for client-side scripting, and React Hook Form for efficient form submissions
- o Utilized RESTful API practices to provide users with customizable recipe options

## EDUCATION

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**AWS Cloud Training** | Women's Empowerment Institute | Remote

June 2023

**Full Stack Development Bootcamp** | Springboard | Remote

January 2022

**Master of Arts Teaching** | Relay Graduate School of Education | New York, New York

September 2017

**Bachelor of Science Human Development** | Howard University | Washington, DC

May 2015

## CERTIFICATIONS

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**AWS Certified Cloud Practitioner**

July 2023