

# SYSCILY BROWN

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## PROFESSIONAL SUMMARY

Software Engineer with expertise in full-stack development and a proven track record of delivering data-driven solutions. Former educator skilled at breaking down complex technical concepts and building scalable systems.

## SKILLS

**Programming Languages:** JavaScript | TypeScript | C# | Python | SQL

**Frontend:** React.js | Next.js | HTML | CSS | Material-UI

**Backend/Cloud:** Node.js | AWS | Azure

**AI/ML:** OpenAI API | Google GenAI | Prompt Engineering

**Testing/Tools:** Jest | React Testing Library | Git | GitHub | Postman | Vercel | Copilot

**Practices:** Agile | CI/CD | Test Driven Development

## CAREER EXPERIENCE

**Software Engineer** | Microsoft Leap | Remote

January 2025 – May 2025

- Achieved 85% test coverage across all metrics through comprehensive testing implementation, significantly improving code reliability and reducing production issues
- Modernized front-end architecture using React Context API for state management and TypeScript for type safety, enhancing performance and maintainability
- Implemented real-time WebSocket communication with custom response components, enabling dynamic backend connections and interactive user feedback
- Developed telemetry system with custom logging functions to capture critical user and system data, providing actionable insights for ongoing optimization
- Leveraged GitHub Copilot to accelerate development cycles by 30%, reducing time spent on boilerplate code and focusing on business logic and architecture

**Software Engineering Fellow** | Headstarter | Remote

July 2024 – December 2024

- Delivered AI-driven solutions during weekly hackathons, consistently meeting tight deadlines
- Built and deployed full-stack application serving 1000+ users using Next.js, AWS EC2, and Firebase
- Implemented CRUD operations with advanced search and filtering capabilities to enhance user experience
- Established CI/CD pipelines using Vercel for automated testing and deployment, reducing deployment time by 50%

**Full Stack Developer** | TechLeap | Remote

May 2024 – June 2024

- Architected mobile application backend using Adalo no-code platform, reducing development time by 40% while maintaining robust functionality
- Implemented responsive UI design in collaboration with design team, resulting in 95% positive user feedback during initial testing
- Created comprehensive technical documentation for API integration, data models, and UI components to facilitate future maintenance and scaling

**Mathematics Instructor** | District of Columbia Public Schools | Washington, D.C.

July 2022 – January 2025

- Drove 119% median improvement in student performance through data-driven instruction and optimization of teaching methodologies

## Full Stack Developer | Transparent Salary Project | Remote

June 2022 – May 2024

- Designed and developed responsive web application focused on salary transparency, supporting users with intuitive navigation and clean UI
- Implemented React UI with WCAG-compliant accessibility features while optimizing performance, reducing page load times by 30%
- Engineered custom API integrations connecting educational resources with third-party data providers, allowing for real-time salary information updates

## Mathematics Program Manager, Teacher | The Equity Project | New York, NY

July 2018 – July 2021

- Led cross-functional team implementation of data-driven educational strategies, driving 35% performance improvement across multiple user segments
- Designed and facilitated biweekly professional development workshops, developing team capabilities in data analysis and performance metrics

## SELECTED PROJECTS

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### myTrainer+ | <https://ai-trainer-six.vercel.app/>

Environment: Next.js (React 19), Convex, Vapi, Google GenAI, Clerk, Tailwind CSS, Radix UI, TypeScript

- Built conversational AI fitness application using Next.js and Google GenAI to generate personalized workout and diet plans through natural language interaction
- Integrated Vapi voice AI agent for seamless user conversations, enabling hands-free plan generation and enhanced user experience
- Implemented comprehensive fitness tracking system with Convex backend for real-time progress monitoring and plan history management
- Developed secure user authentication and data persistence using Clerk and Convex, supporting personalized plan storage and retrieval

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

Environment: Next.js, React, Pinecone, OpenAI API, Material-UI, Node.js, Vercel, Python

- Built RAG-powered chatbot using Next.js and OpenAI API with Pinecone vector database for dynamic character information retrieval
- Implemented backend data processing with Python to prepare character information for vector embedding and storage in Pinecone
- Integrated OpenAI's GPT API with custom prompt engineering to generate contextually accurate character responses

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

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

- Built full-stack recipe search application serving customized nutritional recommendations using React and Spoonacular API
- Implemented responsive UI with React-Bootstrap and Material-UI, improving mobile user engagement
- Developed RESTful API integration with advanced filtering for ingredient-based and macronutrient searches
- Optimized search functionality with React Hook Form and client-side caching

## CERTIFICATIONS

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### AWS Certified Cloud Practitioner

July 2023

## EDUCATION

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### Full Stack Development Bootcamp | Springboard | Remote

January 2022

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

September 2017

### Bachelor of Science in Human Development | Howard University | Washington, DC

May 2015