

# ASHRAF ABDUL-MUUMIN

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## EDUCATION

Illinois Institute of Technology, Chicago, IL  
**Masters, Information Technology, GPA: 4.0**

Aug 2024 – May 2026

Garden City University College, Kumasi, Ghana  
**Bachelor of Science, Computer Science**

Sep 2018 – Jun 2022

## SKILLS

**Languages:** C#, PYTHON, TYPESCRIPT, JAVASCRIPT, PHP, SQL (POSTGRESQL, MYSQL), HTML, CSS

**Frameworks/Tools:** .NET, NEXTJS, REACTJS, NODE.JS/EXPRESSJS, JQUERY, TAILWINDCSS, BOOTSTRAPCSS, MICROSOFT AZURE, VERCEL, GIT, DOCKER, AI, FIGMA

**Others:** RESTFUL API, AGILE, RESPONSIVE DESIGN, USER INTERFACE DESIGN, USER EXPERIENCE, DATA STRUCTURES, LINUX, BASH, OPERATING SYSTEMS, DATA MODELS, MICROSERVICES, SDLC, DESIGN PATTERNS

## VOLUNTEER EXPERIENCE

**Software Engineer (AI/ML)**

AIFS – Chicago, IL

Oct 2024 – Present

- **Enhanced** semantic understanding and message processing capabilities by integrating Microsoft's Semantic Kernel using C#, leading to a **35% improvement** in AI-driven response accuracy and reducing processing latency by **40%**.
- **Optimized** data storage and retrieval by implementing **Azure Cosmos DB**, reducing query response time from **250ms to 80ms** and scaling efficiently to handle **300K+ messages per month**.
- **Implemented** a **user management service** leveraging **Microsoft Entra ID**, enhancing security and access control, reducing unauthorized access incidents by **60%**, and improving authentication reliability with **99.9% uptime**.
- **Automated** deployment workflows for Azure Function Apps using GitHub Actions, cutting deployment time from **15 minutes to under 3 minutes**, reducing manual errors by **80%**, enabling seamless CI/CD operations.
- **Deployed** a highly scalable HTTP Azure Function App using .NET and Azure, increasing request processing efficiency by **50%**, reducing cloud costs by **25%**, and supporting **10,000+ requests per second**.

## PROJECTS

**A. Recipe Sharing App** - <https://recipe-share-app.vercel.app>

- Designed and developed an app for users to submit, search for, and view recipes.
- Built with **Vercel**, **PostgreSQL**, **Azure**, **DevOps (Agile simulation)**, **NextJS**, **TailwindCSS**, **NextAuthJS**, **TypeScript**, **NodeJS**, and **OpenAI**.

**B. RAG: Python Web Scraper and Content Extractor/Comparer** - <https://github.com/chirix33/WebScrapeInsight>

- A Web Scraping program that extracts semantic content from websites and compares them if they have changed.
- Built with **Python**, **NumPy**, **ScaPy**, **BERT**, **PyMuPDF** and **BeautifulSoup4**.

## WORK EXPERIENCE

**Full Stack Developer**

Onesolution – Kumasi, Ghana

Sep 2023 – Aug 2024

- Developed the **PHP desktop application version** of the Point of Sales web app, ensuring consistent user experience across platforms. Adoption rate increased to 63% due to improved offline capabilities and enhanced UI responsiveness.
- Enhanced system performance by optimizing SQL queries and database indexing, reducing query **execution time by 45%** and improving checkout **processing speeds by 37%**, leading to a smoother end-user experience.
- Integrated backend services using **Express.js**, establishing reliable real-time synchronization mechanisms that processed over roughly **600 API requests** daily to ensure sales and other information reflected instantly.