

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

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.

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>

- Engineered a **Python** web scraping program that extracts semantic content from 150+ websites and performs weekly comparisons to identify changes; resulted in **40% zero-cost increase** in content accuracy for AIFS.

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