Rami Elmostafa

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Portfolio: ramielmostafa.com   LinkedIn: www.linkedin.com/in/rami-elmostafa   GitHub: https://github.com/rami-elmostafa

EDUCATION

Kennesaw State University – GPA: 3.82/4.0, Honors College   **Kennesaw, GA**
B.S. in Software Engineering   *Exp.* December 2025
- **Relevant Coursework:** Probability and Data Analysis, Artificial Intelligence, Discrete Structures, Algorithm Analysis, Computer Organization & Architecture, Operating Systems, Data Structures & Algorithms, Software Testing and Quality Assurance, Software Systems Requirements, Database Systems.
- **Awards and Activities:** KSU Men's Club Soccer Vice President, Dean's List Fall 2023, President's List Spring 2023, President's List Spring 2024, **First Generation Coca-Cola Scholarship, Zell Miller Scholarship.**

SKILLS

Programming/Markup Languages: Java, SQL, R, C#, .NET, Blazor, HTML, CSS, PHP, Python (currently), Javascript (basic knowledge)

Frameworks/Libraries: Power BI, SharePoint, Excel, Word, Visio, IntelliJ, Visual Studio, RStudio, Rider, GitKraken, Markdown, Jupyter Notebook/Lab (currently)

Tools: Microsoft Azure, Scrum, Agile, PowerShell, Git, Unit Testing (playwright and NUnit)

EXPERIENCE

The Carter Center   **Atlanta, GA**
Information Technology Intern   Aug 2024 – Dec 2024
- Developed an AI-powered chatbot using Microsoft Copilot Studio, hosted on Azure, to streamline access to policies and procedures, resolving scattered documentation issues, and making documents more easily accessible across the organization.
- Automated the generation of financial and data models by implementing budget reports using PowerBI, addressing cost inefficiencies, which resulted in the optimization of Azure Cloud usage and saved the IT team **20%** in budget allocations.
- Represented The Carter Center at the NetHope Global Summit, gaining hands-on experience with tools like Amazon Bedrock and Q, focused on AI, cybersecurity, and data innovations for global humanitarian impact.

Publix   **Smyrna, GA**
Grocery Replenish Specialist   Mar 2022 – Present
- Leveraged inventory management systems and sales data to forecast product demand and ensure timely stock replenishment
- Identified inefficiencies in stock management workflows and proposed solutions to enhance accuracy and reduce waste.
- Coordinated with cross-functional teams, including store associates and supply chain personnel, to maintain inventory levels and meet customer needs effectively.

PROJECTS

Standard Deviation Calculator   https://github.com/rami-elmostafa/swe3643-fall2024-project
C#, ASP.NET MVC, NUNIT, Playwright   Oct 2024 – Dec 2024
- Developed a web-based calculator capable of performing statistical operations including mean computation, standard deviations (sample and population), z-scores, single-variable regression, and y-value predictions from regression formulas.
- Implemented the application using .NET for backend logic, Blazor for the front end, and integrated unit testing with 100% coverage.
- Utilized Git for version control, .NET runtime (net8.0) for development, and PowerShell scripting for environment setup and automation.

Checkers Game   https://github.com/rami-elmostafa/CheckersGame
C, CLion (Jetbrains IDE)   Aug 2024 – *Present*
- Developed a highly efficient Bitboard representation for chessboards, leveraging 64-bit integers to encode the positions of pieces and optimize computational performance.
- Engineered algorithms to compute strategic movement for all pieces, ensuring accurate handling of chess rules and edge cases, including special moves like castling and en passant.
- Used low-level bitwise operations (AND, OR, XOR, shifts) to minimize computational overhead and achieve real-time move generation and validation.
- Applied principles of computer architecture to manage memory efficiently and optimize data structures for speed and reliability.

Personal Portfolio   https://ramielmostafa.com/
HTML, CSS, JavaScript, Hosted on Domain with MYSQL database and PHP   Aug 2024 - Dec 2024
- Designed and developed a fully responsive personal portfolio website, utilizing **HTML**, **CSS**, and **JavaScript** to create an interactive and visually appealing user interface to showcase professional projects, technical skills, and achievements in software engineering.
- Deployed the portfolio on a dedicated domain using a hosting service, ensuring a professional online presence and reliable access.
- Used Git for code management and version tracking during the development process.