Merna Saad

Master of Science in Software Development | Boston University

📞 +1 (425) 770-8689 | ✉ merna2020saad@gmail.com

LinkedIn: linkedin.com/in/merna-saad-1557a71bb | GitHub: https://github.com/Merna257

Professional Summary

A highly motivated software developer with a Master's in Software Development, skilled in Python, Java, Javascript, and database design. Experienced in delivering scalable solutions, managing projects, leading teams, and developing innovative applications through hands-on development and proactive problem-solving.

Skills

Programming Languages: Java, Python, C#, JavaScript, HTML, PHP

Frameworks: Vue, React Native, AngularJS, Node.js

Tools: PyCharm, Eclipse, VSCode, IntelliJ, Lucidchart, Jupyter, MySQL, MongoDB

Specialties: Algorithms, Software Design, Web Development, Database Management

---

Technical Projects

- **Python-Powered Shopping List Manager**

  - Technologies: Python, PyCharm

  - Designed and implemented a user-friendly shopping list application with advanced features such as item manipulation, error handling, and robust testing.

- **Java-Based Process Scheduler Simulation**

  - Technologies: Java, Eclipse

  - Developed a Java-based process scheduler using priority queue management to handle processes based on priority, arrival time, and duration.

- **Accelerated Genome Sequence Generation**

  - Technologies: Java, Multi-threading

  - Developed a multi-threaded Java program to generate 100 random genome sequences, improving performance by optimizing throughput and concurrency.

- **Database-Driven Wedding Planning Web App**

  - Technologies: JavaScript, Node.js, MongoDB, Vue

  - Developed a server-side web application for wedding planning, implementing account creation, customization of wedding elements, guest list management, and purchase tracking. Includes REST API endpoints for accessing wedding details and purchases in both JSON and XML formats, with data persistence handled through MongoDB.

- **Personal Portfolio Website**

  - Technologies: HTML5, CSS3, JavaScript, Vue

  - Developed a personal portfolio website featuring a biography, skills, interests, resume, contact form, and photo gallery. Implemented responsive design using CSS Flexbox and Grid, and hosted the site on GitHub Pages. Integrated modern JavaScript functionalities and ensured adherence to best practices for web design and usability.

Experience

- Elaph Translation LLC, Egypt — Sr. Team Manager & Reviser (May 2015 - February 2020)
  - Managed multi-disciplinary teams and optimized workflows, achieving a 40% increase in efficiency.
  - Conducted quality assurance processes to ensure alignment with client requirements.
  - Leveraged data-driven strategies to enhance team productivity by 30%.
  - Awarded Employer Appreciation Award for exceptional performance (February 2020).

Education

Boston University, Massachusetts — Master of Science in Software Development (November 2021 - August 2023)
- Relevant Coursework: Advanced Algorithms, Web Application Development, Server-Side Web Development, Database Design, Data Science with Python.

Misr International University, Egypt — Bachelor's Degree in Mass Communication (July 2008 - July 2012)

Stanford University (Online) — Introductory Programming (Python) (April 2020 - June 2020)

The American University in Cairo, Egypt — Professional Diploma in Legal & UN Translation (May 2012 - May 2015)