

Karim Elgendi

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EDUCATION

George Mason University | Fairfax, VA

B.S. in Applied Computer Science, Concentration Software Engineer

Aug 2022 - May 2026

Relevant Courses: OOP Software Design, Data Structures, Analysis of Algorithms, Computer Systems and Programming

TECHNICAL SKILLS

Programming Languages: Java, C, SQL/PostgreSQL, HTML, CSS, JavaScript, Dart

Operating Systems: Windows, Linux (Ubuntu, Pop_OS!)

Technologies/Frameworks & Methodologies: GitHub, Git, Spring/Spring Boot, Flutter, Scrum, VS Code, Agile

PROJECTS

Personal Portfolio Project | HTML, CSS, JavaScript

August 2025

- Designing & developing a personal portfolio website through project-based learning using **HTML, CSS, & JavaScript**. Learning to utilize custom styling & responsive design principles.
- Utilized **GitHub & Git** through **VS Code** for version control, documenting the progress of development & challenges.

CPU Scheduler Project | C

May 2025

- Developed and implemented core scheduling functions in **C** as a CPU Scheduler that manage process creations based on priority queues, & dealing with termination states within an emulated **Linux** Task Manager
- Applied bitwise operations, linked list manipulation to streamline processes, & used processing techniques to handle multi-level feedback of queue scheduling, ensuring correct CPU allocation to prevent starvation.
- Gained hands-on experience in memory management, & error-handling practices to achieve functionality with zero memory leaks using Valgrind.

The Game of Life Project | Java, Maven

March 2025

- Implemented a simulation of Conway's Game of Life in **Java** with principles that model complex grid-based behavior & cellular automata.
- Designed & implemented a custom Dynamic Array to manage the resizable grids storage without the use of Java's Collection Framework, ensuring to adhere to Big-O runtime requirement.
- Utilized & Practiced with **Maven** for practical experience in a structured software environment. Maintained clean & well-documented code.

CPR Mobile Application | Dart, Flutter

September 2025

- Developing a mobile CPR guidance application with real-time, step-by-step instructions with a product backlog that supports enhanced features.
- Working in an **Agile XP (Scrum)** environment contributes to sprint planning & applying iterative development to incrementally improve usability and performance.
- Driving the project's mission to offer a minimalistic mobile solution to perform CPR & decreases the likelihood of overwhelming users.

PROFESSIONAL SUMMARY

Applied Computer Science Senior Student seeking Internship for relevant experience. I am proficient with **Java** and am currently learning the **SpringBoot** framework & **SQL**. Current Project is the CPR App using **Dart & Flutter**.