Karim Elgendi

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EDUCATION

George Mason University | **Fairfax, VA**

B.S. in Applied Computer Science, Concentration Software Engineer   **May 2023 - December 2026**

Relevant Courses: Software Testing/Maintenance, Data Structures, Analysis of Algorithms, Operating Systems, Software Architecture

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, Agile, Scrum, Flutter, VS Code

PROJECTS

Personal Portfolio Project | **HTML, CSS, JavaScript, Spring Boot, PostgreSQL**   **October 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.
- Built a **Spring Boot REST API** with **CRUD endpoints**, using **Spring Security** to secure backend APIs that access the database and **Spring Data JPA** (**Hibernate**) for database persistence.

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**.

CPR Mobile Application | **Dart, Flutter**   **December 2025**
- Developed a mobile CPR guidance application that reduces the fluff & crowding of a traditional CPR info website with real-time, step-by-step instructions with a product backlog that supports enhanced features.
- Worked in an **Agile XP** (**Scrum**) environment contributes to sprint planning & applying iterative development to incrementally improve usability and performance.
- Drove 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 **Spring Boot** framework (**Currently working on Spring MVC – Thymeleaf**) & **SQL**. Current Project is the Personal Portfolio Project using **HTML, CSS, JavaScript, Java, Spring Boot, & PostgreSQL.**