

YEHYA ABOU AL KHEIR

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PROFESSIONAL SUMMARY

Computer Science student with hands-on project experience spanning Java application development, full-stack web development, and core data structures (heaps, hash tables, priority queues). Comfortable working across the stack — from implementing custom data structures to building responsive interfaces and relational databases. Strong fundamentals in algorithmic efficiency, system design, and relational databases, with a growing interest in cloud computing and infrastructure. Seeking a Software Engineering, Web Development, or Cloud/Infrastructure internship to contribute to real-world projects and grow as a developer.

EDUCATION

Beirut Arab University (BAU)

Sept 2024 – Present

Bachelor of Science in Computer Science (In Progress)

Relevant Coursework: Introduction to Programming, Object-Oriented Programming, Data Structures, Web Development, Software Engineering, Database Systems.

TECHNICAL SKILLS

Systems & Infrastructure Foundations: Linux / Command-Line Fundamentals, Git, GitHub, Computer Network Fundamentals

Languages & Web: Java, JavaScript, HTML5, CSS3, PHP, MySQL, Bootstrap 5.3

Core CS: Data Structures & Algorithms, OOP, Heaps & Priority Queues, Hash Tables, Stacks & Queues

Software Engineering: System Design, UML (Use Case, DFD, Class, Sequence Diagrams), SRS Documentation, Agile Scrum

Tools & IDEs: Git, GitHub, VS Code, IntelliJ IDEA, Eclipse, Figma

ACADEMIC & SOFTWARE PROJECTS

Hospital Emergency Room (ER) Patient Management Simulator — Java

- Built a standalone Java simulation modeling emergency room triage and patient-tracking workflows under concurrent, time-sensitive conditions.
- Implemented a custom binary max-heap priority queue to process the most urgent patients first — the same priority-scheduling principle used by job schedulers.
- Built a hash table with linear-probing collision handling for constant-time ($O(1)$) patient lookup, the kind of low-latency lookup pattern used in caching systems.
- Used circular queues to track patient arrival order and stacks to maintain a treatment audit trail.

MediShop — Medical Supplies E-Commerce Platform — HTML5, CSS3, JavaScript, PHP, MySQL

- Built a full-stack e-commerce platform for medical supplies with a PHP backend and MySQL database.
- Designed a responsive Bootstrap 5.3 interface featuring a product catalog and shopping cart system.
- Designed a relational schema with indexing and referential integrity constraints to keep data consistent.

Meshwar — Smart Transportation App — UML, SRS, Agile Scrum

- Collaborated in a team to design a smart transportation app using Agile Scrum and standard SE practice.
- Authored a Software Requirements Specification (SRS) covering feasibility analysis and iteration planning.
- Modeled the system with Use Case, Data Flow (DFD), domain Class, and Sequence diagrams to guide development.