

LEEN EIDY

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SUMMARY

Computer and Communication Engineering student with hands-on experience building full-stack web applications, RESTful APIs, and C++ programs using custom data structures. Comfortable across the stack — from React/Node.js and Spring Boot to low-level C++ with linked lists and OOP design. Strong troubleshooting and debugging skills, with practical exposure to authentication, database design, and embedded systems.

EDUCATION

Bachelor's Degree — Computer and Communication Engineering

Université Antonine (UA)

Expected Graduation: 2028

PROJECTS

Spark — Full-Stack Social Media Web Application | *React, Node.js, REST API, MySQL*

- Developed a responsive social media web app with a React frontend and a Node.js RESTful backend.
- Implemented user authentication, CRUD operations, API integration, and client-side state management.
- Designed reusable UI components with input validation and error handling throughout.

Recipes Management System | *Spring Boot, MongoDB*

- Built a backend service using Spring Boot with a layered Controller–Service–Repository architecture.
- Designed RESTful APIs and integrated MongoDB using Spring Data.
- Implemented CRUD operations, request validation, and global exception handling.

Car Rental Management System | *C++, OOP, File I/O, Regex*

- Built a console application with user authentication (SHA-1 hashed passwords) and role-based access for admins and clients.
- Implemented car inventory management and a reservation system with date-range availability checks.
- Applied regex-based input validation and persisted all data to CSV files.

Multi-Currency Banking System | *C++, Custom Linked Lists, Merge Sort*

- Designed and implemented custom doubly/singly linked list structures (users → accounts → transactions) from scratch, without STL containers.
- Built multi-currency transfers with automatic conversion and enforcement of deposit/withdrawal limits.
- Implemented merge sort on linked-list transactions by date and a custom text-based file format for persistence.

Absence Security System | *Raspberry Pi, Python, GPIO*

- Developed a motion-detection security system using an ultrasonic sensor with LED and buzzer alerts.
- Implemented automated email notifications and real-time GPIO interfacing under workshop time constraints.

Children's Interactive Storytelling System | *Software Design, UML*

- Designed a branching storytelling system, producing UML Use Case, Class, and Sequence diagrams

SKILLS

Languages: C++, Java, Python, JavaScript

Web & Backend: React, Node.js, Spring Boot, REST APIs

Databases: MongoDB, MySQL, SQL Server

Concepts: OOP, UML, Data Structures (Linked Lists), Sorting Algorithms, Layered Architecture

Embedded: Arduino, Raspberry Pi

Tools: Git, Postman, Bootstrap

CERTIFICATIONS

- Docker Fundamentals — LearnKartS
- Arduino Programming Fundamentals — Edraak
- Interactivity with JavaScript — Coursera
- Prompt Engineering — Udemy
- Emotional Intelligence and Leadership — Edraak

LANGUAGES

Arabic (Native) | English (Advanced)