

# Reem El Hussein

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## SUMMARY

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Motivated Computer and Communications Engineering student specializing in Software and Networks Engineering, with hands-on experience in software development through academic projects. Skilled in problem solving, adapting to new technologies, and contributing effectively in collaborative environments. Interested in backend development, software design, AI applications, and building efficient digital solutions.

## EDUCATION

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### Antonine University

Baabda

BE in Computer and Communications Engineering

Expected Graduation, June 2026

- **Concentrations:** Software and Networks Engineering

### Le Lycee National

Lebanese Baccalaureate – Life Science (LS)

- **Grade:** 17.8/20

## EXPERIENCE

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### OGERO

Mina El Hosn

Frontend Developer Intern

July 2024 – Sept 2024

- Developed responsive user interface components using React and JSX, improving interface usability and component reusability across the application.
- Implemented client-side routing using React Router and styled interfaces using SCSS and Material UI.
- Collaborated with the development team to integrate frontend components with application workflows and improve overall user interaction.
- Participated in debugging, interface refinement, and testing to ensure smooth performance and maintainable code structure.

## PROJECTS

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- Developed an Android-based IoT control application in Java for a mobile-controlled robotic system, integrating MQTT communication, Raspberry Pi, GPS, and sensor modules to enable real-time remote interaction and automated environmental responses.
- Built a Python-based machine learning model for stroke risk prediction, applying data preprocessing, feature engineering, and supervised learning techniques to improve prediction accuracy, achieving 90% model performance.
- Developed a web application using PHP and Laravel for property booking and management(AirBnB), integrating interactive maps through Leaflet, online payments via Stripe, and automated email testing with Mailtrap.
- Built a Java-based semantic search system using text processing and similarity matching techniques, improving document retrieval relevance and optimizing query ranking performance.
- Developed a secure web application by implementing user authentication, role-based access control, multi-factor authentication, and OAuth login. Applied HTTPS configuration, SSL certificates, data encryption, and session management to protect sensitive information, while addressing common security vulnerabilities through secure coding practices, testing, and network traffic analysis using Wireshark.

## ADDITIONAL INFORMATION

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**Programming & Frameworks:** JavaFX, Python, Java, PHP, C# .NET, Entity Framework, Laravel, C++, ReactJS

**Databases & Tools:** SQL, MySQL, NoSQL, PostgreSQL, Git, Agile

**Systems & Platforms:** Windows, Linux, Networking Fundamentals, System Design, IT Infrastructure, Server/Client Management

**Cybersecurity & Web Technologies:** Information Systems Security, Web Application Security, SSL/TLS, HTTPS, Multi-Factor Authentication, Penetration Testing , Cryptography, SQL Injection Prevention, Session Management, Wireshark

**AI & Intelligent Systems:** Machine Learning, Semantic Search, IoT Integration, Data Preprocessing

**Soft Skills:** Teamwork | Communication | Problem-solving | Adaptability | Attention to detail

**Certifications:** CCNA