

# Reema Alsamrani

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## SUMMARY

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Bachelor's degree graduate in Computer Science with a solid foundation in algorithms, problem-solving, and Artificial Intelligence, along with fundamental knowledge in web development and networking. Skilled in analyzing complex problems and designing efficient solutions, and continuously seeking to strengthen technical expertise and apply theoretical knowledge in practical applications.

## EDUCATION

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**King Saud University**  
*Bachelor of Computer Science*

Riyadh, Saudi Arabia  
2022 – 2026

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, C, SQL, Java

**Tools And Technologies:** GitHub, Google Colab, Visual Studio Code, NetBeans, LaTeX

## PROJECTS

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### **Automated Power Line Inspection Using Deep Learning on UAV-Collected Images**

June 2026 – Present

*Deep Learning Project*

*Python, PyTorch, OpenCV*

- Developed a deep learning model using PyTorch to automatically detect power lines in UAV-captured color images.
- Preprocessed and analyzed high-resolution images using Python and OpenCV, improving model accuracy and efficiency.
- Reduced manual inspection effort and enhanced safety by automating the detection and condition assessment of power lines.

### **Content Aware Image Size Reduction**

Feb 2025 – Apr 2025

*Design and Analysis algorithms*

*Java, Dp, greedy*

- Developed a content-aware image resizing tool using seam carving in Java.
- Implemented energy map calculation and seam detection with DP and Greedy algorithms.
- Created visualizations of seams and energy maps for clear demonstration.

## COMMUNITY INVOLVEMENT

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### **Vice of Relations**

2025 - 2026

*AI Club, King Saud University*

*Riyadh, Saudi Arabia*

- Coordinated communications and collaborations with other clubs

### **Event Leader**

2025

*Sports Club, College of Computer and Information Sciences*

*Riyadh, Saudi Arabia*

- Organized and led two major sports tournaments for the college

### **Design Committee Member & Hackathon Participant**

2025

*BIG n Club, King Saud University*

*Riyadh, Saudi Arabia*

- Contributed to club design projects and participated as a competitor in the Hackathon

### **Volunteer**

2023 – 2026

*Kaswat Farah Campaign*

*Riyadh, Saudi Arabia*

- Participated in the 11th, 12th, and 13th editions of this charitable community campaign

## SOFT SKILLS

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-Problem-solving   - Teamwork   - organization   - willingness to learn   - Leadership