

SARAH EID

Jeddah, Saudi Arabia
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<https://sarah-eid.github.io/Portfolio/>

EDUCATION

Effat University Bachelor of Computer Science Concentration: Cybersecurity	2022 - 2026 (expected)
Al-Kon Al-Motawara International School High School Diploma	2018 - 2022
Callaghan College Wallsend Campus - Australia Secondary Education	2016 - 2017
Bishop Tyrrell Anglican College - Australia Secondary Education	2014 - 2016

AWARDS AND CERTIFICATIONS

Public Speaking and Debate Certification
Advanced English Language Proficiency Certification

SKILLS

Programming Languages:

Python, C++, Java, SQL, HTML, CSS, JavaScript

Cybersecurity:

Network Security, Encryption, Zero Trust Architecture, IoT Security

Technical Skills:

Linux Architecture, Cisco Networking, Data Structures, Algorithm Analysis, Data Engineering

Artificial Intelligence and Data Science:

Machine Learning, Data Analysis, Predictive Modeling

Core Competencies:

Project Management, Time Management, Leadership, Problem-Solving

PROJECTS

Student Employability & Salary Prediction Using Machine Learning: A comprehensive machine learning project that predicts student placement outcomes and salary ranges based on academic performance, work experience, and other key factors.

Advanced Algorithmic Solutions for Data Structures & Problems: A comprehensive collection of algorithmic solutions to complex data structure problems involving trees, graphs, and range queries. Demonstrates advanced problem-solving skills and efficient implementation techniques for handling large-scale constraints.

Restaurant Ordering System Using Java OOP: An object-oriented restaurant ordering system built in Java. Models real-world ordering and billing workflows using clean OOP principles, including encapsulation and separation of responsibilities. Handles menu items, order management, bill calculation, and payment processing through a console-based interface.

PAPERS

Student Employability and Salary Prediction Using Machine Learning: A Comprehensive Analysis: This paper develops and compares machine learning models to predict two critical outcomes for university students: employability and expected starting salary. The study integrates multiple datasets to create a comprehensive predictive framework for the Saudi Arabian labor market, supporting Vision 2030 objectives.

Strengthening IoT Security: A Comprehensive Approach to Zero Trust Implementation: This research examines how Zero Trust Architecture (ZTA) can enhance security in Internet of Things (IoT) ecosystems. Evaluates ZTA implementation strategies, including continuous authentication, least privilege access, and micro-segmentation, to address critical vulnerabilities in IoT networks across healthcare, smart cities, and enterprise systems.

A Comprehensive Study of Security Mechanisms in Software Engineering: A comprehensive literature review analyzing how embedding security mechanisms like static analysis, threat modeling, and DevSecOps throughout the Software Development Life Cycle (SDLC) reduces vulnerabilities. Identifies key practices, evaluates their effectiveness, and highlights critical research gaps in empirical validation and organizational factors.

LANGUAGES

English

Arabic