

Abdullah Talal Alharigi

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EDUCATION

Prince Mohammad Bin Fahd University (PMU)
Bachelor of Science in Software Engineering

Expected Graduation 2027

Relevant Coursework: Principles of Software Engineering, Data Structures, Database, Computer Organization, Web Programming, Mathematical Reasoning & Algorithmic Thinking

University of Birmingham, UK

Aug 2023

Foundation Year – Computer Science

Mawhiba Alumni – King Abdulaziz and His Companions Foundation for Giftedness and Creativity

PROJECTS

IoT Capstone – Embedded Control System

C, C++, Particle, Blynk

- Developed an IoT application on Particle microcontrollers with real-time joystick control and RGB LED sequencing
- Implemented hardware multithreading for simultaneous cloud communication and device operations via Blynk platform
- Completed during secondary school as part of Northwestern University's Center for Talent Development (CTD) program

Task Scheduler with Dependency Validation

Java, HashMap, CSV

- Built a task scheduling system that parses CSV input and validates prerequisite chains across dependent tasks
- Optimized schedule consistency validation from $O(n^3)$ to $O(n^2)$ by replacing nested loops with HashMap lookups

GameHub – Game Review & Recommendation Web App

HTML, CSS, JavaScript

- Built a 12-page responsive web application with reviews, recommendations, game details, and newsletter subscription
- Implemented client-side search, filtering by platform/genre/rating, pagination, and dynamic review submission
- Designed modular JavaScript architecture with ES6 imports, async data loading, skeleton loaders, and toast notifications

Leadso – B2B Lead Generation SaaS

Next.js, TypeScript, Supabase, Tailwind

- Built a full-stack web application for searching and exporting verified business contacts using Next.js and Supabase
- Implemented credit-based access system with tiered pricing, email verification, and CSV export functionality
- Developed in 24 hours using Claude Code and Gemini 3.1 Pro (High) in Antigravity IDE; deployed on Netlify

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, C++, C, SQL, Assembly (MIPS)

Web: Next.js, React, Tailwind CSS, HTML, CSS

Databases: Supabase (PostgreSQL), SQL (DDL, DML, queries, schema design)

Tools: Git, GitHub, VS Code, IntelliJ IDEA, Claude Code, Antigravity IDE, Netlify, Vercel

Concepts: OOP, Data Structures, Agile/SDLC, Software Requirements Engineering, System Modeling

CERTIFICATIONS

- IoT Engineering with Windy City Lab – Northwestern University
- Computer Science for a Digital Future (Machine Learning & Robotics) – OxMedica
- Entrepreneurship Fundamentals – Hamdan Bin Mohammed Smart University (HBMSU)
- Mawhiba English Preparation Program

LANGUAGES

Arabic (Native) • English (Fluent)