AL-MAKHTAR HUMAID KHALFAN AL BADOWI

Computer Science

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Professional Summary

Computer Science graduate (Sultan Qaboos University, 2026) specializing in web and software development, with a strong passion for problem-solving, innovation, and automation. Skilled in building efficient, scalable solutions, from custom graphics engines to full-stack platforms for the Omani market. Experienced in collaborating within teams to meet deadlines and deliver high-quality results, with a strong commitment to continuous learning in AI and emerging technologies.

Projects

- **MASAHA Booking & Service Management Platform:** Developing a service booking platform tailored for the Oman market, focused on simplifying customer reservations and payment workflows without requiring user registration (fyp project).
- **Gadwal**: Developing a full-stack sports facility booking platform for Oman, enabling facility owners to manage bookings, courts, and schedules while providing customers with a seamless online reservation experience (live online).
- **Areeb (أريب)** :Developed a real-time multiplayer party game platform where players join using their mobile devices to compete in interactive games displayed on a shared screen (live soon but have test online version).
- **Lumen:** Developed a desktop audiobook player for language learners. It uses AI to transcribe the audiobook (Whisper) and translate each sentence (NLLB-200) entirely offline, and shows the translation as a floating subtitle on top of any window (working build, packaged as a standalone Windows app).
- **The Cube:** Built a desktop AI assistant shown as a floating, jelly-like dithered cube that wanders the screen and shows its state through colors. Highlighting text and pressing one hotkey lets it correct, translate, summarize, explain or rewrite the text. It also sorts email, runs a focus timer and takes voice commands. It has an extension system so anyone can add features as Python plugins (C++/SDL3 with a custom OpenGL renderer, a Python AI backend using Claude and local models; working build, in active development).
- **Suqya:** Mosque Water Donation Platform: Full-stack MVP connecting donors with mosques in Oman that need drinking water, built for a presentation to the Ministry of Endowments. Laravel REST API, Filament admin panel and an Arabic/RTL Flutter app with five roles, first-accept delivery dispatch, photo proof of delivery, mosque stock tracking and Pest-tested endpoints.
- **Misk Engine:** Designed and built a graphical engine from scratch, along with its backend. (Currently in development).

Key Skills

Technical Skills

- **Programming Languages: C/C++, Python, Java,**

  JavaScript, HTML, CSS, php, SQL, Bash, PowerShell, json, ASM86
- **Database Management: MySQL, postgresql**
- **Framework and API: React.js, Node.js, OpenGl, GLFW, spring boot, flutter, Laravel, odoo**
- **Optimizing AI Responses for Research & Development**
- **Version Control: Git, GitHub, GitLab, MS Project**

Soft Skills

- **Team Collaboration**
- **Project Management**
- **Time Management**

Hobby-related Skills

- **Adobe photoshop and adobe after effect**
- **Blender**

Experience

- **Knowledge & Expertise**

  Sultan Qaboos University
  - Gained in-depth expertise in software development, including building web and mobile applications.
  - Applied technology to solve real-world problems through practical projects.
- **Work Experience**

  Code Academy
  - Training Program Developer & Coordinator (Jun – Nov 2026) Develop and coordinate training programs, working with trainers and trainees to ensure smooth program delivery.

  Freelance Experience
  - Strong understanding of computer simulation and computer graphics, with expertise in GPU architecture and rendering techniques.
  - Extensive experience in software development, including designing and building a custom game engine (graphical engine) from scratch.
  - Proficient in analyzing and maintaining large-scale software systems.
  - Skilled in front-end web development using React.js, HTML, CSS, and JavaScript.

- **Part-Time Work (Spring2024)**

  Sultan Qaboos University

  - Experience in teaching Object-Oriented Programming (OOP) using Java as a Teaching Assistant (TA).

- **Participant**

  Sultan Qaboos University

  - OCPC(2023): Oman Collegiate Programming Contest

Education

- **B.Sc. in Computer Science – Web and Software Development, Sultan Qaboos University** **GPA(2.99)**

Certifications

- **Certificates of TA for Fundamentals of Object-Oriented Programming course (comp2202).** **Spring2024**

Languages

- **ARABIC (Native)**
- **ENGLISH (Excellent)**