

# TALAL AL AIDARUS

## SOFTWARE ENGINEER

### CONTACT

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### SKILLS

**Programming Languages:** Python, Java, PHP, SQL, C++, JavaScript  
**Web Development:** HTML, CSS, JavaScript  
**Framework:** React JS  
**Database Management:** SQL, Firebase, MongoDB  
**Tools & Technologies:** Visual Studio Code, Git, Excel, Node.js  
**Leadership & Teamwork:** Project leadership, team management, volunteer coordination

### EDUCATION

High School Diploma

**Imam Jaber bin Zaid School**

September 2017 – January 2019

Currently Bachelor

**University of Technology and Applied Sciences**

September 2019 – Present

- Currently at bachelor (B.Tech level)
- Relevant Courses: Web Development, Database Administration, Project Management, Software Engineering Principles

### HOBBIES

Tech and Coding  
Photography  
Teaching  
Hiking

### LANGUAGES

English   
Arabic   
swahili 

### PROFILE

Throughout my academic career at UTAS, I have honed my skills in web development, database administration, and project management. My technical expertise includes proficiency in programming languages such as Python, Java, JavaScript, PHP, SQL, and HTML. I am deeply passionate about staying current with industry trends and advancements, which fuels my commitment to continuous learning. Beyond my technical skills, I have a strong interest in leadership and teamwork, nurtured through volunteering and managing projects. These experiences have equipped me with valuable communication and leadership abilities, which I believe are essential for success in the tech industry. As I transition to the B.Tech level, I am eager to apply my skills and experiences in real-world scenarios, with a particular interest in opportunities that align with my passion for innovation and excellence.

### WORK EXPERIENCE

#### Employer Part time

2022 - 2015

- Aramex (Private Contractor) 2021 - 2022** - delivering shipments from the company's warehouse directly to customers.  
**Role:** Delivery Contractor
- Gillette 2019** - Promoted the launch of an innovative new product  
**Role:** Promotional Staff
- Muscat Festival 2018** – Oman Automobile Association  
**Role:** Festival Game Operator
- Ramadan Festival 2018** – Oman Convention & Exhibition Centre  
**Role:** Festival Game Operator
- Muscat Festival 2017** – Amerat  
**Role:** Project Coordinator (Science Lab)
- Muscat Festival 2016** – Amerat  
**Role:** Festival Game Operator
- Muscat Festival 2015**—Naseem Park  
**Role:** Cartoon Character

#### Employer for open days

- |                     |   |      |
|---------------------|---|------|
| • HSBC National Day | - | 2020 |
| • NBO Open Day      | - | 2019 |
| • HSBC Open Day     | - | 2018 |
| • NBO Open Day      | - | 2017 |

#### Project Coordinator

2017

##### Innovation Factory

- We maintained a Science lab equipped with a wide array of cutting-edge technologies designed to engage and educate children across various fields, providing them with a glimpse into the future and the exciting possibilities that lie ahead.
- I effectively managed a team of 15 professionals, overseeing daily operations that catered to an average of 5,000 daily visitors, spanning seven distinct technology sections within the laboratory.

## VOLUNTEERED EXPERIENCE

- **Programming Club Events (2023-2024):** Organized and managed multiple events, including Programmer Talks and Entertainment Days.
- **INJAZ Oman (2024):** Developed Aqua Sink Pro with a team, focusing on smart water heater technology. Competed and received recognition.
- **Summer Camps (2023-2024):** Volunteered as a teacher and guide at multiple summer camps, teaching Python, Hardware and SQL to students from fifth to twelfth grade.
- **Programming Club Foundation Introduction (2023):** Led a three-day introduction session for new students about the Programming Club at UTAS.
- **Techno Day (2024):** Volunteered as an organizer and later competed in the "Crack the Code" competition.
- **UTAS Computing Skills Camp:** Volunteered as a teacher and guide at summer camps, teaching Hardware students from fifth to seventh grade.

## PROJECTS

### E-Zone: Aqua Sink Pro (2024):

- **Description:** A smart water heater control device integrating advanced safety and control features, with a mobile app interface for remote management.
- **Technologies Used:** IoT, Mobile App Development, Data Analysis.
- **Role:** Team member, focusing on development and testing.

### IEEE Research Paper: Aqua Sink Pro (2024):

- **Title:** Aqua Sink Pro: A Smart Solution for Water Heater Safety and Efficiency
- **Summary:** This research paper, published at IEEE, discusses the development and implementation of Aqua Sink Pro, a smart water heater control device that integrates advanced safety and control features. The paper explores how the device enhances safety, convenience, and energy efficiency in residential water heating systems. It also highlights the innovative aspects of Aqua Sink Pro, including its app-based interface, real-time monitoring, and data analysis capabilities.

## BACHELOR GRADUATION PROJECT

### PathFinder – Web-Based IT Career Path Guidance System

**Role:** Full-Stack Developer, AI Model Designer

**Tools:** React, MongoDB, Node.js, Python (Decision Tree, KNN), Git

**Duration:** Sep 2024 – May 2025

Developed an AI-powered career guidance platform to help high school students (ages 15–18) identify suitable IT career paths based on academic performance, interests, and personality traits.

- Built personalized recommendation engine using machine learning (Decision Tree & KNN algorithms).
- Designed and implemented the front end in React and the backend using Node.js and MongoDB.
- Created interactive modules including skill simulators, career exploration pages, and a dashboard for students and admins.
- Led user testing and gathered feedback from actual students to refine recommendation accuracy and usability.
- Project aligns with Oman Vision 2040 by promoting youth digital literacy and career readiness.
- Planned future phases: government/school integration (Phase 2) and multi-sector expansion beyond IT (Phase 3).

## ACHIEVEMENTS

- **OCPC 2022 (Oman Collegiate Programming Contest):** Competed against over 45 teams and we won top 8 at Sultan Qaboos University.
- **GPC 2022 (Gulf Programming Contest):** Competed against over 35 teams from Gulf countries and we won top 11 at Sultan Qaboos University.
- **MCBS 2023 (Modern College of Business and Science) Coding Competition:** we Won top 4.
- **OCPC 2023 (Oman Collegiate Programming Contest):** Ranked top 13 among 45 teams.
- **GPC 2023 (Gulf Programming Contest):** Achieved top 18 ranking.
- **Programming Club Competition 1 (2023):** Competed in a team of three, we won top 6.
- **Programming Club Competition 2 (2024):** Solo competition, won top 2.
- **Marathon Ibri (2024):** Team of two, we won top 4 in a programming competition at UTAS Ibri.
- **SITER (Society of IT Engineers & Researchers):** Won Best Research Paper Award for Aqua Sink Pro.
- **LNG Program (Follow the Line Robot):** We won top 2 in a team of six.
- **DCPC 2024 (Dhofar Competitive Programming Competition):** Competed against over 61 teams and we won top 3 in Salalah.