

Abdullah Alafari

Computer Science, Prince Sultan University
+966 59 969 6701
alafaria.abdullah@gmail.com
alafariabdullah.sa

Education

Bachelor of Science in Computer Science

Expected Graduation: 2028

College of Computer and Information Science, Riyadh, Saudi Arabia

Prince Sultan University, GPA: 3.83/4.00

CCNA Training Program

January 2025 - February 2025

Tuwaiq Academy, Riyadh, Saudi Arabia

Skills and Interests

Interests Product Development, System Design, Embedded Systems, IoT, Networking, Automation, Robotics, Modeling and Simulation

Technical Skills Arduino, ESP32, Raspberry Pi, Home Automation (Zigbee, Home Assistant), Networking Fundamentals (Routing, Switching, VLANs), Linux, Docker

Experiences

Mechatronics Bootcamp Participant

Jan 2026 – Feb 2026

Tuwaiq Academy

- Completed an intensive, hands-on training program focused on mechatronics fundamentals
- Gained practical experience in electronics, embedded programming, and system integration
- Worked on application-based exercises and small projects following a build–test–improve approach
- Learned how hardware, software, and mechanical components integrate to form functional systems

Intern – Mawhiba Alumni

Jun 2025 – Jul 2025

King Abdulaziz & His Companions Foundation for Giftedness and Creativity (Mawhiba)

- Audited the Mawhiba Alumni landing page and admin panel, identifying issues and documenting bugs
- Prepared structured reports and communicated findings to the development team
- Generated and analyzed alumni-related insights to support internal evaluation
- Contributed to proposals and planning for the Mawhiba Alumni development project

President – Game Development Club

2025 – Present

Prince Sultan University

- Student-led university club focused on learning, collaboration, and professional skill development in game development
- Led and coordinated technical and creative activities including programming, game design, and project planning

Projects

Self-Hosted Smart Home and Local Server Infrastructure

2023 – Present

Independent Systems Engineering Project

- Designed and deployed a local-first smart home infrastructure using Zigbee, Home Assistant, Node-RED, and n8n across a multi-floor residential villa (500 m²)
- Migrated a large number of smart devices from cloud-dependent platforms to fully local control
- Integrated a Synology NAS with Dockerized services including media servers (Plex, Jellyfin), backups (SFTP), and automation workflows (n8n)
- Implemented network segmentation (VLANs), local routing, and service isolation to enhance performance, scalability, and maintainability