

# Khaled Salem Abbad

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## EDUCATION

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**King Faisal University - Al Hofuf, Saudi Arabia**

09/2022 – 06/2026

Dedicated Computer Science student at King Faisal University (GPA: 4.91/5.00) with a strong interest in web development, back-end programming, and server management. Knowledgeable in cybersecurity and security best practices, with experience in implementing secure systems and protecting web applications. Passionate about creating efficient, safe, and scalable web solutions while continuously learning and applying modern security and development frameworks.

## EXPERIENCE

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**Google Developer Student Club – Developer**

*Hofuf - Saudi Arabia, 09/2023 – 09/2024*

- Worked as a Developer at Google Developer Student Club, building web applications, managing backend tasks, collaborating with team members, and applying best practices in coding and version control (Git).

**Freelance IT / Server Administrator**

*Remote- Saudi Arabia, 05/2024 – present*

- Provided freelance server administration services, including configuring and managing web servers (Nginx), implementing security measures (Fail2Ban), troubleshooting issues, and ensuring stable and secure web hosting environments.

**King Faisal University – VulnOps Lead, Cybersecurity Club**

*Hofuf - Saudi Arabia, 09/2024 – 05/2026*

- Led VulnOps at the university's Cybersecurity Club, creating vulnerable web apps for training and competitions, delivering workshops on web security, and mentoring members in CTFs and secure coding practices.

**Multiple Initiatives Contracting Company (MICC) – Tech Support** *Remote- Saudi Arabia, 04/2025 – 07/2025*

- Provided IT support and system configuration for MICC, managing devices, troubleshooting hardware and software, ensuring operational efficiency, and applying security best practices.

**Hozma Tech – Cooperative Trainee (Coop)**

*Hofuf - Saudi Arabia, 01/2026 – present*

Contributing to Hozma's cloud SaaS platform for POS, self-service kiosks, and ERP — used by 3,000+ retail and F&B businesses in Saudi Arabia and ZATCA-compliant.

- POS Platform: Re-engineered the session creation and session-topic logic in Hozma's point-of-sale system, replacing the default workflow with a tailored experience aligned to specific client business requirements.
- Self-Service Kiosk App: Led a full architectural refactor of the self-service kiosk application, migrating it from Clean Architecture to MVVM — improving maintainability, testability, and feature delivery speed.
- Resolved a wide range of production bugs across the pos application, raising stability and end-customer experience in live deployments.

## PROJECTS

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- **Meta-Ray — Multi-Task Medical Imaging Model** — Built a deep learning model on CT scans performing liver segmentation, segmentation of three malignant liver tumor types (HCC, ICC, CHCC), and disease classification. Trained using Prototypical Networks (meta-learning) to generalize from limited annotated data — addressing the data scarcity problem common in medical imaging.

- **Date Fruit Quality Prediction Model (CNN + Meta Learning)** – Developed a predictive model using CNN and MAML (meta-learning) techniques to classify date fruit quality based on visual and sensor data, improving accuracy across multiple varieties.
- **Traffic Congestion Prediction Model** – Implemented a machine learning system to forecast traffic congestion using parameters like vehicle count and waiting times, providing actionable insights for traffic management.
- **Nabd Influencers— Full-Stack Ad Management Platform** — Built a platform enabling influencers to manage advertisers, schedule campaigns, and send custom offers to clients, with integrated online payment (SurePay-compatible) and real-time payment confirmation updates via webhooks.
- **MICC Website (Full-Stack Business Site)** — Built and deployed a full-stack company website (Node.js, Express.js, EJS, Vercel) featuring a secure contact form with SendGrid integration and a fully responsive layout.
- **Speed Typing Game (Full-Stack Web App)** — Developed a typing practice platform with multiple timed modes, a real-time leaderboard, secure authentication (email + Google OAuth), dynamic EJS UI, and responsive design.

## Certifications

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- Introduction to Neural Networks and PyTorch - IBM
- AI for Medical Diagnosis - DeepLearning.AI
- Model Context Protocol (MCP) - Fractal Analytics

## Skills

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### Technical Skills:

- Languages: Python, Flutter, HTML, PHP, JavaScript
- Tools & Platforms: Linux, MongoDB, PostgreSQL, Node.js, Git, Docker, npm

### Soft Skills:

- Team Management
- Leadership
- Communication
- Problem Solving
- Critical Thinking
- Teamwork

## Languages

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Arabic (Native)

English (professional)

- TOFEL ITP - Score: 497 (B1)