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Ibrahim Al Harthi, Technical Specialist

I always believe innovation is the key to advancing societies, and I have actively contributed to several innovation bootcamps and projects. Through leadership, collaboration, and adaptability, I have guided teams to develop impactful solutions, such as Taif Rose and Sabig. My ability to communicate ideas effectively, engage with stakeholders, and work in multidisciplinary teams has been instrumental in bringing creative concepts to life. Currently pursuing a Master's in Machine Learning & Computer Vision at ANU, I thrive in dynamic environments where problem-solving, teamwork, and resilience drive success. I am passionate about bridging technology with human-centric solutions for a better future.

Experience

Software Engineer at Nortal

February 2024 — June 2024

- Developed and managed key software solutions, ensuring they aligned with organizational goals
- Collaborated with cross-functional teams to implement technical best practices
- Provided technical expertise, troubleshooting, and optimization for system performance
- Maintained compliance with industry regulations and security protocols

Computer Engineer Trainee at King Fahd Air Base

July 2023 — August 2023

- Gained hands-on experience in networking, telephone line configuration, and system maintenance
- Assisted in managing operating systems, troubleshooting hardware/software issues
- Enhanced the efficiency of communication networks at the air base

Freelance Web Developer

December 2022 — April 2023

- Designed and developed a responsive website for a client using React and Bootstrap
- Improved SEO rankings and enhanced the client's online presence
- Managed end-to-end deployment and ensured seamless project delivery

Education

Master of Machine Learning and Computer Vision, The Australian National University

July 2024 — Present

Bachelor's Degree in Computer Engineering, Taif University

September 2018 — August 2023

Nanodegree, Full Stack JavaScript Developer, Udacity

September 2022 — December 2022

Certifications

AWS Cloud Technical Essentials at Amazon

Single Page Web Applications with AngularJS at Saudi Digital Academy

IELTS academic Band 7

Innovation & Leadership

Taif Rose Bootcamp

- Led a team to develop an innovative solution for farmers to maximize rose production efficiency.
- Presented the project to stakeholders and bootcamp experts, enhancing leadership skills.

Sabig – Innovation Competition (Top 5 Finalist)

- Designed a motivational sports app promoting walking and hiking goals.
- Pitched the idea to the university head manager, demonstrating strong presentation skills.

Skills

Technical Solutions Development

Project Delivery & Management

Stakeholder Engagement

Standards & Compliance

Cloud & Infrastructure

Projects

Employee Churn Prediction Model

- Analyzed employee churn data and developed a machine learning model to predict retention risks.
- Focused on effective data-driven solutions using Python, data analysis, and machine learning techniques.

Graduation Project: Fainting Detector Inside Elevators

September 2022 — February 2023

- Led the technical development of a device that detects fainting cases in elevators and stores the data for further analysis.
- Took on the role of a Technical Specialist, ensuring seamless integration of hardware (Arduino) and software components.
- Developed the backend system, linking React.js, databases, and embedded systems for real-time monitoring and analysis.
- Oversaw the end-to-end development lifecycle, from hardware implementation to data management and system optimization.

FullStack Map website

August 2022 — September 2022

- Designed and developed an interactive web page to guide beginners on the roadmap to becoming FullStack web developers.
- Built the frontend using modern web technologies, ensuring an intuitive and user-friendly experience.
- Demonstrated expertise in UI/UX design, front-end development, and educational content creation.

Technical Competencies

Full-Stack Development

I developed scalable web applications using React.js, Next.js, Node.js, Express.js, and Django. In my FullStack Map project, I designed and built a web-based guide to help beginners navigate software engineering careers.

AI & Machine Learning

I leveraged TensorFlow, PyTorch, and OpenCV to build predictive models. In my Employee Churn Prediction project, I analyzed workforce data and developed a machine learning model to predict employee attrition.

IoT & Embedded Systems

I integrated Arduino, databases, and IoT to enable real-time monitoring. In my Fainting Detector Inside Elevators (Graduation Project), I designed and implemented a system to detect fainting cases and store data for further analysis.

DevOps & Agile Methodologies

At Nortal, I worked in a collaborative team environment, applying Agile and Scrum methodologies to ensure efficient development cycles. I utilized Docker, Kubernetes, and CI/CD pipelines to streamline deployment processes and enhance system reliability.

Awards

Graduating Early Badge – RISE Program

Volunteering

IEEE TU

August 2022 — July 2023

- Organized and assisted in conducting technical workshops to enhance student learning.
- Created informative social media content to engage and educate students on engineering and technology.
- Collaborated with team members to promote IEEE initiatives and events within the university.