THAMER MASEER ALHARBI Software Engineer

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🖰 Activities _____

LeetCode: Solved 467 Problems (179 Easy, 242 Medium, 46 Hard) Codeforces: Solved 134 Problems Vjudge: Solved 211 Problems	LeetCode 샵 Codeforces 샵 Vjudge 샵
 45th Place in the worldwide Capture The Flag (CTF) challenge at Black Hat MEA. 3rd place in the KSAA-CAD Shared Task 2024 - Reverse Dictionary (RD) competition, organized by ArabicNLP in association with ACL 2024, Bangkok. 	Nov 2024 Aug 2024
Participated in the Alibaba Cloud Saudi Hackathon.	Jan 2023
Competed in the Arab Collegiate Programming Contest (ACPC).	Dec 2022
• 3rd place in the Cyberhub Technical Content Creation Competition (Analysis Category).	Nov 2022
• 3rd place (Bronze) in the Saudi Collegiate Programming Contest (Saudi CPC).	Nov 2022
 Reached the Final Phase of the Saudi Collegiate Programming Contest (Saudi CPC). 	Sep 2022
• 4th Place in the Python for Data Analysis Competition 2.	Mar 2022
Participated in the Cyberhub CTF.	Feb 2022

🖰 Experience ______

University of Hafr AlBatin, Software Programmer (Part-time)

Dec 2022 - Sep 2023

- Contributed to key projects, including:
 - Faculty Management Specialization (FMS): Focused on system design, including UML diagrams, database diagram design, and activity diagrams for managing faculty-related processes.
 - Faculty Scholarship Flow: Worked on system design, including UML diagrams, and activity diagrams design for tracking student scholarship progress. The system included automated alerts for students and their responsible faculty members regarding their scholarship status.
 - University Hierarchy: Designed a tree-based hierarchical structure for university data management, including faculty hierarchy and management using Python, Pandas, Plotly, MS Excel, and PowerBI for data analysis and visualization.
- Involved in the full software development lifecycle: planning, design, development, and testing.

Education

University of Hafr AlBatin, Bachelor's Degree Software Engineering

• Graduated Project: Faculty Management Specialization (FMS).

Aug 2018 – Aug 2023

Licenses & Certifications

Amoren Web Services (AWS) AWS Cortified Machine Learning Cresistry 57	Oct 2024 - Oct 2027
Amazon Web Services (AWS), AWS Certified Machine Learning - Specialty ∠	OCT 2024 - OCT 2021
Amazon Web Services (AWS), AWS Certified Solutions Architect − Associate 🗹	Oct 2024 - Oct 2027
HackerRank, Software Engineer ☑	Sep 2024
Amazon Web Services (AWS), AWS Certified Cloud Practitioner ☑	Feb 2024 - Oct 2027
SDAIA, Math for AI ☑	Jan 2024
SDAIA, LLMs Practitioner 🗹	Dec 2023
SDAIA, ML Practitioner ☑	Nov 2023
SDAIA, SDAIA ML Bootcamp ☑	Oct 2023
Alibaba Cloud SCCC, Alibaba Cloud Saudi Hackathon 🗹	Feb 2023
International Collegiate Programming Contest (ICPC), The 2022 ICPC ACPC	Dec 2022
International Collegiate Programming Contest (ICPC), The 2022 ICPC SaudiCPC 🗹	Sep 2022
Coach Academy, Competitive Programming Training - Level 2 ☑	Sep 2022
Coach Academy, Competitive Programming Training - Level 1 ☑	Sep 2022
1 Million Arab Coders, Full Stack Developer Track ☑	Apr 2018

Skills _

- Good understanding of Object-Oriented, Functional, and Procedural programming paradigms.
- Proficient in Python, C++, Java, and JavaScript.
- Good understanding of Test-Driven Development (TDD), Unit, Integration, and End-to-End (E2E) testing.
- Good understanding of Agile methodologies, including Scrum, Kanban, and Extreme Programming (XP).
- Skilled in project management and collaboration tools (Trello) for Agile development.
- Good problem-solving skills with a competitive programming background.
- Good understanding of SOLID principles and design patterns for developing maintainable, scalable, and efficient software.
- Experience in Full-Stack Web Development using Django, Flask, FastAPI, Express.js, and React.js.
- Skilled in designing RESTful APIs.
- Good understanding of caching mechanisms, including Redis and CDN integration.
- Experience with relational and NoSQL databases (Oracle, PostgreSQL, MariaDB, MongoDB, DynamoDB).
- Good understanding of database optimization, sharding, and replication.
- Hands-on experience with AWS (EC2, S3, Lambda, RDS, IAM, API Gateway and more...) and Alibaba Cloud.
- Experience with Docker, Docker Compose, and Infrastructure as Code (IaC) using AWS CloudFormation.
- Experience with Machine Learning frameworks (TensorFlow, PyTorch, Scikit-Learn, SageMaker).
- Hands-on work with MLOps, model deployment, and AI system integrations.
- Proficient in data analytics using Pandas, Plotly, Seaborn, and Matplotlib.
- Research experience in NLP (published at ACL ArabicNLP Workshop).
- Cybersecurity experience (Participated on CTFs, ethical hacking, penetration testing).
- Good understanding of OWASP security principles and top web vulnerabilities.
- Good understanding of authentication protocols (OAuth 2.0, JWT).
- Good understanding of Linux internals, system administration, and shell scripting, with hands-on experience in building Linux from scratch (Arch Linux user since 2016).
- Good understanding of the OSI networking model with hands-on experience in network design and testing using Packet Tracer.
- Good understanding of networking protocols (TCP, UDP, DNS, TLS, SSH and more...) and tools (Wireshark, iptables, tcpdump).
- Experience in distributed computing and microservices architecture.
- Proficient in Git, GitHub, and version control best practices.

△□ Languages .

- Arabic Native
- English Professional working proficiency

Projects _

Nabigah – (JavaScript, React.js, Express.js, Prisma ORM, PostgreSQL, Python, FastAPI, Docker)

Jan 2025 - Present

- Developed an Al-powered education platform where students can ask Al for help within each learning block if they don't understand the material.
- Built a comprehensive course management system to organize and manage courses, materials, and student interactions.
- Integrated rich content formats (Markdown, images, videos) for a more engaging and dynamic learning experience.
- Deployed using Docker across a multi-server architecture for scalability and reliability.
- System architecture:
 - **Frontend:** Built with React.js for a responsive and engaging user experience.
 - **Backend:** Developed using JavaScript (Express.js) with Prisma ORM and PostgreSQL for efficient data management.
 - **AI Services:** Powered by Python and FastAPI, utilizing DeepSeek for assessment and feedback.
 - **Infrastructure:** Deployed with Docker across four dedicated servers (Authentication, AI, Backend, and Frontend).

Shortener – (Python, FastAPI, PostgreSQL, Redis, Docker)

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- Developed a high-performance URL shortener using FastAPI, PostgreSQL, and Redis.
- Integrated request validation and security measures for safe and efficient URL handling.
- Containerized using Docker for seamless deployment and scalability.

EcoRoute - (Python, FastAPI, Pandas, TimeFold,...)

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- Developed an Al-powered distributed system for truck load balancing and route optimization, utilizing FastAPI and TimeFold for efficient processing.
- Leveraged Pandas for data processing and analysis to optimize decision-making for route planning and resource allocation.
- Designed to enhance efficiency in truck logistics and transportation, reducing costs and improving delivery times.

Exam Organization Simulation - (Blender, Godot)	May 2023 - Sep 2023
Tech Teacher – (Python, Django, OpenAI)	OZ
Faculty Management Specialization (FMS) – (C#, ASP.net Core MVC, Hangfire)	Dec 2022 - Jun 2023
Faculty Scholarship Flow – (C#, Hangfire)	May 2023 - Jun 2023
University Hierarchy – (Python, Pandas, Plotly, MS Excel, PowerBI)	Mar 2023 - May 2023

Publications _____

MISSION at KSAA-CAD 2024: AraT5 with Arabic Reverse Dictionary THAMER ALHARBI

Aug 16, 2024

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