

Kareem Alshiekh

Computer Engineer

Egyptian National | Based in Riyadh, Saudi Arabia

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Professional Summary

A highly skilled Computer Engineer with expertise in full-stack web development, machine learning, and cloud technologies. Proven track record of delivering successful projects for clients across various industries, including e-commerce, finance, and healthcare. Adept at solving complex technical challenges and optimizing system performance. Currently residing in Saudi Arabia, seeking to contribute technical expertise and leadership skills in the dynamic tech landscape of Saudi Arabia.

Experience

Web Developer, Freelance – Remote

Dec 2023 – Present

- Designed and implemented ERP systems for SMEs, enhancing inventory tracking efficiency by 30% and reducing payroll errors by 20%.
- Delivered 10+ web and mobile projects using React.js, Laravel, and Node.js, achieving a 95% client satisfaction rate.
- Advised 5+ startups on architecture improvements, reducing system downtime by 20% and improving scalability by 30%.
- Built user-friendly websites that increased engagement by 40% across diverse industries.

AI Developer, Remote Outlier – Remote

Feb 2024 – Present

- Engineered effective prompts to fine-tune outputs of large language models (LLMs) for client-specific applications.
- Developed Python scripts to automate tasks including data extraction, text preprocessing, and API integrations.
- Trained and optimized AI models using TensorFlow and PyTorch, achieving improved model accuracy and reduced training times.
- Collaborated remotely with international teams to build AI-driven solutions for business automation and content generation.

Education

Bachelor of Science in Computer Engineering

Arab Academy for Science, Technology and Maritime Transport

2019 – 2024

Relevant Coursework: Machine Learning, Data Structures and Algorithms, Operating Systems, Software Engineering, Web Development

Projects

Graduation Project – ERP System for Business Management:

- Designed and developed a full-stack ERP system using Laravel and MySQL, covering E-commerce, HR management, stock inventory, and delivery modules.
- Integrated AI models to automate product classification and predict inventory demand, enhancing operational efficiency.
- Implemented a DevOps pipeline with Docker to enable scalable, containerized deployments and streamline continuous integration workflows.
- Developed real-time tracking features for inventory levels, employee performance, payroll processing, and delivery status.

- Achieved a modular and extensible system architecture, allowing seamless integration of future business functionalities.
- **AI-Powered Insurance Recommendation System:**
 - Designed a machine learning model to personalize insurance policy recommendations, increasing user satisfaction by 25% and reducing search time by 40%.
- **Football Manager (Java OOP):**
 - Developed a football team management simulator with 100+ customizable attributes, performance tracking, and strategy simulation.
- **Sports Classification Neural Network:**
 - Built a neural network with 95% accuracy for classifying over 1,000 sports activities using TensorFlow and Python.
- **Convert Text to Handwritten:**
 - Created a Python-based tool generating realistic handwritten text images, supporting over 50 fonts and efficient multi-page processing.

Skills

- **Programming:** Python, Java, C, C#, SQL, JavaScript/TypeScript
- **Web & Cloud:** React.js, Laravel, Node.js, AWS, Docker, Kubernetes, PHP, HTML5, CSS
- **Data & AI:** TensorFlow, PyTorch, OpenCV, Pandas, NumPy, Matplotlib, Tableau, Power BI
- **Databases:** MySQL, MongoDB, Firebase
- **Tools:** Jenkins, CI/CD, Microsoft Excel
- **Soft Skills:** Leadership, Cross-functional Collaboration, Agile Problem Solving, Communication
- **Languages:** Arabic (Native), English (Proficient)