MOHAMMED EMAD OMER MOHAMMED

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I am a highly skilled software engineer with over 9 years of experience in the web development using JavaScript and web development programming languages and framework and 5 years specializing in **MERN Stack** (MongoDB, Express.js, React.js, and Node.js) and **Generative AI** solutions. I possess expertise in multiple programming languages and frameworks, with a focus on building intelligent AI-driven applications, particularly in the realm of **Natural Language Processing (NLP)** and **Generative AI**. I have a strong background in developing robust web applications and AI-powered systems, and I continuously evolve with cutting-edge technologies to deliver optimal solutions for clients.

Skills:

- **Generative AI & NLP:**
  - Expertise in **Prompt Engineering** for fine-tuning large language models like GPT and BERT.
  - Proficient in using **LangChain** to develop intelligent AI conversational agents with Natural Language Understanding.
  - Hands-on experience in crafting and aligning AI outputs with real-world use case objectives.
  - Strong knowledge in building AI-powered solutions for document processing, customer service, and data handling.
- **MERN Stack Development:**
  - 5+ years of experience in **React.js, NextJS** , **MongoDB**, **Express.js**, and **Node.js** for full-stack development.
  - Proficient in designing and implementing scalable, web applications using modern development tools.
  - Expertise in building **RESTful APIs** and managing backend services with Node.js and Express.js, flask and fast api using python
  - Skilled in frontend development using **React** and state management frameworks **Redux workflow**.
  - Python, JavaScript (ES6+), HTML5, CSS3, Git, Docker
  - Databases: MySQL, PostgreSQL, Firebase, and NoSQL (MongoDB)
  - Knowledge in Machine Learning libraries: TensorFlow, PyTorch, scikit-learn

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Work Experience:

Generative AI Software Engineer
Faizads LLC | 2022 – Present

- Led the development of **AI-powered chatbots** and **NLP systems** to enhance customer interactions, resulting in a significant increase in user engagement.
- Built scalable web applications using **React.js** for dynamic UIs and **Node.js** for backend services.
- Developed a **RAG (Retrieval-Augmented Generation)** system to enhance document retrieval and QA capabilities using transformer models with(OPENAI APIs).
- Worked with cross-functional teams to integrate AI solutions into existing web platforms, automating processes and reducing operational costs.

Full-Stack Developer (MERN Stack)
Ruknan For public Relations | 2014 – December2024

- Developed end-to-end web applications using the **MERN Stack** for media files, e-commerce, SaaS platforms, and internal business tools.
- Integrated third-party APIs and services to extend platform functionality and ensure seamless user experience.
- Mentored junior developers, provided technical guidance on MERN stack projects, and led code reviews to maintain high code quality.

Projects:

- **AI Conversational Assistant**
  Developed an AI-driven assistant for **NLP-based customer support** using **LangChain** and **GPT** models, enabling the automation of responses for routine queries and document retrieval tasks.
- **Document Processing with Generative AI**
  Built a **Generative AI-powered document processing system** using transformer models, improving data extraction and information retrieval across large datasets for legal and healthcare industries.

Education:

Post-Graduate Program in Artificial Intelligence and Machine Learning
Completed September 2024 | University of Texas at Austin
Focused on machine learning deep learning, transformers architectures, and AI solution development.

Bachelor of Science: Computer Science

BAYAN COLLEGE OF SCIENCE AND TECHNOLOGY

Certifications & Courses:

Generative AI for Natural Language Processing
Key Learning Outcomes:

- Mastery in **Prompt Engineering** for crafting effective prompts and fine-tuning outputs of large language models.
- Practical knowledge in using **BERT** and **GPT** model families for **NLP** tasks and real-world AI solutions.
- Developed conversational AI assistants with **LangChain**, capable of understanding and responding to complex queries, including tasks involving private data.