Muhammad Omer

Software Developer | Backend Developer | Technology Lead

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PROFILE

Results-driven **Software Developer** with **4+ years** in **backend development**, specializing in **scalable applications**, **database optimization**, and **AI integration**. Adept at **leading projects**, **managing teams**, and **streamlining workflows**. Passionate about **innovation**, **collaboration**, and **continuous learning** to drive impactful solutions.

EDUCATION

NED University of Engineering & Technology,
Bachelors in Computer Engineering (CS)
Dec 2016 – Sep 2020 | Karachi, Pakistan
  CGPA: 3.395/4

PROJECTS

Finance Intelligence App (FIA)
  Led the project, automating financial calculations and reporting using **Power Platform , Python and Django**, creating dashboards for revenue and loss tracking.

Chatbot Development (CALA Bot)
  Developed an AI-integrated chatbot leveraging **machine learning** and **Microsoft Copilot Studio** for improved user interaction.

Product Brochure App
  Led a team in automating **AI-generated marketing materials**, streamlining event and campaign content creation.

OPEN EDX (MOOC PLATFORM)
  Customized **core services (LMS, CMS, ecommerce, discussions), automated multi-tenant site creation** using **Django and multi-threading,** and performed **migrations** to the latest **Open edX versions.**

Product App (PA)
  Led the development of an enterprise **module generation, course creation, and task scheduling app**, integrating **ChatGPT and PHP 8.2.**

Resume Screening System
  Built an ATS-like **ML-powered system** for resume parsing and candidate screening, using **Laravel, MySQL, and OpenAI**.

Sketch Based Image Retrieval (Final Year Project)
  Developed a **deep learning-based sketch-to-image retrieval system**, utilizing **feature extraction and CNNs** to map hand-drawn sketches to relevant natural images with high accuracy.

CERTIFICATES

- Web Developer Bootcamp, JavaScript Essentials, Python And Django Framework Complete, Power Virtual agents with Azure OpenAI, Microsoft Azure

INTERESTS

Teaching, Coding, Photography, Software, Innovations, Social networking, Sports, Mobile softwares.

PROFESSIONAL EXPERIENCE

EduCLaaS, *Senior Software Developer(Technology Lead)*
Jul 2023 – present | Singapore
- Led **Python backend development** for a **tracking system** and **AI-driven chatbot** for enhanced user engagement.
- Developed a **centralized Contact Management System** integrating multiple data sources, improving accessibility by **35%**.
- Optimized database queries, reducing API response time by **40%**.

KNYSYS,LLC,
Associate Software Developer (Assistant Team Lead)
Oct 2022 – Jun 2023 | Karachi, Pakistan
- Spearheaded **LMS customizations**, improving UX and security for enterprise clients.
- Led multiple teams, managing tasks from estimation to deployment, ensuring **98% project completion rate**.

KNYSYS,LLC, *Assistant Software Developer*
Oct 2021 – Sep 2022 | Karachi, Pakistan
- Designed and integrated **secure payment gateways** into LMS, increasing transaction success rate by **25%**.
- Developed optimized **database schemas**, reducing query execution time by **30%**.

KNYSYS,LLC, *Junior Software Developer*
Dec 2020 – Sep 2021 | Karachi, Pakistan
- Developed **RESTful APIs** for web and mobile applications, enhancing **data flow efficiency by 50%**.
- Contributed to feature design, improving overall system scalability.

Stimulus Production, *Assistant Software Developer*
Jun 2020 – Aug 2020 | Karachi, Pakistan
- Designed frontend solutions, converting PSD designs into **responsive HTML/CSS layouts**.

ISR Software Services Private Limited, *Internee*
Aug 2019 – Sep 2019
- Designed and tested **user interfaces** while assisting in the implementation of customized software using modern development tools.

TECHNICAL SKILLS

CODING: Python │ JavaScript │ PHP │ Bash Scripting

FRAMEWORKS: Django & DRF │ OpenEdX │ Flask │ FastAPI │ LangChain │ OpenAI API (GPT, DALL·E)

DATABASES: MySQL │ PostgreSQL, │ MongoDB │ CosmosDB │ Redia

DEVOPS: AWS │ Linux │ Microsoft Azure │ Docker │ CI/CD

OTHERS: Logic Design │ Problem Solving │ Data Structures │ Algorithm Analysis │ Cronjobs │ Troubleshoot │ Software Methodology │ Hubspot CRM │ Project Management