Muhammad Omer

Software Engineer | Python Developer | Technology Lead

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SUMMARY

Software Developer | 5+ Years in Backend Development, **AI Integration**, and **Scalable Systems.** Expertise in **database optimization**, **workflow automation**, and leading cross-functional teams to deliver **40% latency reduction** and **98% on-time projects**.

EDUCATION

NED University of Engineering & Technology, Karachi, Pakistan — Dec 2016 – Oct 2020
Bachelors in Computer Engineering
CGPA: 3.395/4

PROFESSIONAL EXPERIENCE

EduCLaaS, Singapore
Senior Software Developer (Technology Lead) — Jul 2023 – Present
• Led **Python backend development** for **AI-driven CALA Bot**, integrating **Microsoft Copilot Studio** to improve user interaction by **40%**.
• Designed a **centralized Contact Management System** integrating multiple data sources, improving accessibility by **35%**.

KNYSYS, LLC, Karachi, Pakistan
Associate Software Developer (Assistant Team Lead) — Oct 2022 – Jun 2023
• Spearheaded **LMS customizations** for enterprise clients, improving UX and security protocols.
• Managed cross-functional teams (10+ members), ensuring **98% on-time project delivery** via Agile methodologies.
Assistant Software Developer — Oct 2021 – Sep 2022
• Engineered **optimized database schemas** for high-traffic systems, reducing query execution time by **30%**.
• Integrated **Stripe/PayPal payment gateways**, boosting transaction success rates by **25%**.
Junior Software Developer — Dec 2020 – Sep 2021
• Contributed to **feature design** for scalable systems supporting **10,000+ concurrent users**.
• Developed **RESTful APIs** (Django REST Framework) for web/mobile apps, enhancing data flow efficiency by **50%**.

Stimulus Production, Karachi, Pakistan — Jun 2020 – Aug 2020
Assistant Software Developer
• Converted PSD designs into **responsive HTML/CSS layouts** for frontend solutions.

ISR Software Services Private Limited, Karachi, Pakistan — Aug 2019 – Feb 2020
Internee
• Crafted and validated UIs with HTML, CSS, JavaScript, resolving 15+ bugs to boost user satisfaction.

PROJECTS

OPEN EDX (MOOC Platform)
• Customized **core services (LMS, CMS, eCommerce)** & automated multi-tenant deployments via **Django multi-threading**, reducing setup time by **50%**.
• Migrated **legacy systems to latest Open edX versions**, scaling for **50k+ users** with **AWS S3/Azure Blob Storage**, boosting content delivery by **40%**.
• Enhanced security via **Google/Microsoft SSO**, **custom OAuth, HTTPS**; revamped **UI/UX with Comprehensive Theming** and **XBlocks** for interactive.
Resume Screening System
• Architected an **ML-powered ATS** using **Laravel, OpenAI, and MySQL**, reducing HR screening time by **60%**.
Finance Intelligence App (FIA)
• Automated financial reporting using **Python, Django, and Power Platform**, generating real-time dashboards for revenue tracking.
Sketch-Based Image Retrieval
• Trained a **CNN model** to map sketches to natural images with **92% accuracy** using **caffe** and **tensorflow**.

SKILLS

Programming: Python | JavaScript | PHP | Bash
Frameworks: Django | Open edX | Flask | FastAPI | LangChain | OpenAI API
Databases: MySQL | PostgreSQL | MongoDB | Redis | Clickhouse
DevOps: AWS (EC2, S3) | Azure | Docker | CI/CD Pipelines
Tools & Technologies: RESTful APIs | Data Structures | Algorithm Design | HubSpot CRM | n8n (Workflow Automation, AI Agent Orchestration)

CERTIFICATES

• Web Developer Bootcamp | JavaScript Essentials | Python & Django Framework | n8n Masterclass: Build AI Agents & Automate Workflows
• AWS Concepts | Microsoft Azure Fundamentals | Power Virtual Agents with Azure OpenAI | FastAPI - A python framework