

# Muhammad Omer

## Software Developer | Backend Developer | Technology Lead

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### SUMMARY

**Software Developer | 4+ 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 Jul 2023 – Present  
*Senior Software Developer (Technology Lead)*

- 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 Oct 2022 – Jun 2023  
*Associate Software Developer (Assistant Team Lead)*

- 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 – Sep 2019  
*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  
**DevOps:** AWS (EC2, S3) | Azure | Docker | CI/CD  
**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