

Muhammad Umar Waseem

<mailto:umar.waseem@gmail.com> | Islamabad, Pakistan

<https://muhammadumarwaseem.com>

PROFESSIONAL SUMMARY

Muhammad Umar is a Computer Science graduate with hands-on experience in developing and deploying Full Stack Web and Mobile App solutions. Muhammad also has experience solving various problems while working with different clients as a freelance software engineer. In addition to his technical skills, he leverages AI tools to get quicker, better results. He has worked on projects with teams on-site and also remotely while maintaining efficient communication and collaboration.

EXPERIENCE

Retail Media Group, London, England

Full Stack Software Engineer

- Built Retail Media focused android product from the ground up.
- Handled the technical aspects of the product ranging from backend, frontend, and database to deployment.
- Leveraged AI tools to enhance product features, and user experience and get ahead of the market competition.
- Integrated AI tools to bring unique features to the product.
- Built a fully integrated analytics system to track each aspect of product usage.

Software Engineer

Cowlar Design Studio, Islamabad, Pakistan

- Collaborated with Web, Mobile, ML, and Embedded System Engineers teams, integrating embedded systems, IoT devices, low energy devices, Bluetooth systems, and online web APIs with mobile and web apps, resulting in seamless and enhanced user experiences.
- Automated workflows using GitHub Actions and Gitlab DevOps workflows, ensuring product quality and agility, significantly reducing errors and improving development speed.
- Optimized product performance and costs for mobile platforms, achieving a 50-60% improvement in efficiency and cost-effectiveness.
- Worked on different initiatives that could be taken to improve existing team workflows such as suggesting agile no-code tools and keeping team members aware of new libraries and improvements.

Head App Development

Google Student Developers Club, Islamabad, Pakistan

- Developed mobile applications using Flutter, providing innovative solutions and contributing to various projects within the community.
- Conducted over 5 workshops to educate and enable students, successfully familiarizing at least 50% of the attendees with essential software engineering skills and technologies.
- Led app development initiatives, mentoring peers and fostering a collaborative learning environment to enhance the technical capabilities of the club members.

Freelance Software Engineer

Upwork

- Fixing bugs to making major modifications in existing code bases.
- Deployment on cloud platforms such as **AWS** and **AZURE** using DevOps techniques.
- Worked with a diverse set of problems having a set of use cases.
- Fulfilled a variety of requirements including management systems, simple to complex apps such as apps that handle whole operations of a hotel/restaurant, social media competitors, etc.

SKILLS

Flutter / Dart , Next.js , React.js , Node.js , Golang , Python , TensorFlow , Pandas , Numpy , MLflow , Docker , GitHub Actions , Jenkins , Jira , Airflow , C++

PROJECTS

MD Voice - Transform Doctor-Patient Conversations into Accurate, Automated SOAP Notes in Real-Time [App Store](#), [Play Store](#)

- Usage of Geminig LLM to revolutionize the doctor-patient interaction
- Helps doctors make better diagnosis
- Capture every detail with real-time transcription of doctor-patient conversations. No more missed information.
- Generate comprehensive SOAP notes instantly, allowing you to focus more on patient care and less on paperwork.
- Ensure the highest level of security and confidentiality with HIPAA-compliant data handling.
- Enjoy the freedom to record as many conversations as you need without any limits.
- Track and analyze transcription and note-taking efficiency.
- Benefit from a reduced rate of when multiple doctors join using the same group code.

The Checker App [App Store](#)

- Goodbye to the hassle of manually tracking the cleaning process of hotel rooms.
- Monitor and record the entire cleaning process of hotel rooms in a few simple steps.
- The app provides a checklist of all the items that need to be checked during the cleaning process.
- Can be used to optimize the cleaning process and reduce costs.

Uni-verse - One-Stop App For Students

- The one-stop resource center for students
- Students can look for past exam questions, assignments, and related documents.
- Chat with a personalized bot to help you prepare by asking you questions on topics you are weak in
- Helps you analyze the trend of exam questions in past years using AI
- Contribute to the resource database and get higher on a competing student leaderboard.

Retrieval Augmented Generation Gemini LLM Chatbot [Github](#)

- Retrieval augmented generation-based chatbot
- Uses langchain which is a new framework for working with different AI models
- Uses Google's Gemini as a large language model
- Reduces hallucination and gets the latest data ensuring privacy and concise answers

Airflow Data Extraction Pipeline [Github](#)

- Seamless ETL pipeline.
- Automated data extraction from source, performs cleaning, and sends to storage.
- Scheduled and manual pipeline triggers.
- Data version control for maintaining data versions.

Find more projects on github.com/Umar-Waseem or muhammadumarwaseem.com/projects

EDUCATION

Bachelor of Computer Science

Fast National University Of Computer And Emerging Sciences

Subjects: Data Structures, OOP, Artificial Intelligence, Generative AI, MLops

VOLUNTEER WORK

- Community Volunteer with Pakistan Red Crescent

May 2024