

MUHAMMAD HASSAN ABBAS

Full-Stack Developer

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SUMMARY

Full-Stack Web Developer with extensive experience building end-to-end web applications using Python (FastAPI), React.js. Specialized in designing scalable architectures, integrating AI technologies, and delivering production-ready solutions across diverse domains including AI-powered video generation, real-time collaboration platforms, event management systems, and enterprise software. Proven ability to work across the entire technology stack—from backend APIs and databases to dynamic, responsive frontends—while consistently delivering high-quality code and exceptional user experiences.

SKILLS

Languages: Python, JavaScript, TypeScript, PHP

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Alpine.js, jQuery, AJAX, Inertia.js

Backend: Python (FastAPI), Laravel (PHP), Node.js, Express.js, RESTful APIs, GraphQL, Apollo Server

Databases: MySQL, MariaDB, MongoDB, Database Design & Optimization

Cloud & DevOps: AWS, GCP, Docker, FCM, Git, GitHub, Automated Deployments

AI & Tools: OpenAI (GPT-4.5, Whisper, TTS), ElevenLabs, Flux Schnell, FFmpeg, Stripe, Twilio

Real-Time: WebSockets, Pusher, Firebase Cloud Messaging, Laravel Echo

Soft Skills: Communication, Problem Solving, Attention to Detail, Teamwork, Leadership

EXPERIENCE

Software Engineer — Softpers, Lahore | Aug 2023 - Present

- Collaborated on diverse development projects at Softpers, leveraging skills in GraphQL, Apollo Server, Node.js, React.js, MongoDB, AWS services, API Integration, FCM, JavaScript, PHP, Laravel, AJAX and more.
- Contributed to projects across various domains including public WiFi startup, short video social media startup, and in-house HR information system.
- Employed a wide range of technologies and tools to deliver innovative solutions and meet project requirements effectively

PROJECTS

CloakMotion | Python, FastAPI, React, Ffmpeg, OpenAI, ElevenLabs

- Developed an automated AI-based faceless video generation platform from the ground up, leveraging Python (FastAPI), JavaScript and Laravel. The platform generates engaging faceless videos and publishes them directly to platforms like YouTube and TikTok.
- Engineered the core video generation engine in Python (FastAPI), integrating cutting-edge AI technologies including OpenAI (GPT-4.5, Whisper, TTS), ElevenLabs, and Flux Schnell to create content dynamically and render high-quality videos using FFmpeg.
- Designed and built the backend using Laravel, implementing Stripe for subscription management. Integrated direct video publishing to TikTok and YouTube, and utilized Laravel queues to manage asynchronous video creation and processing via the video generation module.
- Developed the frontend using Blade, JavaScript, Alpine.js, and Tailwind CSS, ensuring a fast, responsive, and intuitive user experience. Prioritized rapid MVP delivery within tight deadlines without compromising performance or UX.
- Provided DevOps services, including deploying the platform on AWS EC2, configuring automated deployments, integrating AWS SES for transactional emails, and ensuring overall system stability and scalability.

Home Energy Audit Software | PHP, Laravel, React, RESTful API

- Contributed as a Full-Stack Developer on multiple projects for a U.S.-based energy audit company using Core PHP, Laravel, React, jQuery, and JavaScript.
- Built real-time data synchronization using Pusher, improving cross-user collaboration and user satisfaction.
- Led development of a licensing platform and integrated Stripe for subscription billing and payment processing.
- Developed an admin dashboard with advanced user management, reporting, and analytics to support data-driven decisions.

EDUCATION

Bachelor of Science, Computer Science — Virtual University of Pakistan — 2023