



Abdul Tawab

Software Engineer

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Education

Fast Lahore  2021 – present
Bachelors in Computer Science

GCU  2019 – 2021
FSC Pre Engineering Lahore, Pakistan

Professional Experience

Aksile Media Jun 2024 – Aug 2024
Software Engineer Lahore, Pakistan

- Developed a comprehensive time tracking software using React, Go, and PostgreSQL, employing microservices architecture.
- Leveraged Docker, RabbitMQ, and Kubernetes for containerization, message queuing, and orchestration.
- Enhanced project management, time logging, and reporting functionalities to boost productivity and efficiency.

Coding Crafts (formerly Trimu Labs) Jul 2023 – Aug 2023
Web Development Intern Lahore, Pakistan

- Assisted in front-end development for various web applications using modern frameworks.
- Gained hands-on experience in debugging and optimizing web applications.

Projects

Call Smart: AI Asistant for Customer Support Centers Nov 2024 – present

- **Tech Stack:** Next.js, FAST API, OpenAI, Twilio, Supabase, Clerk, Shad CN, Deepgram
- Developed an AI-driven system to assist **customer service agents** and automate **customer interactions**.
- Integrated **vector databases** for accurate query retrieval and **speech-to-text processing** for voice calls.
- Enhanced multilingual support and reduced response times through AI-driven automation.

Time Tracking Tool Jun 2024 – Aug 2024

- **Tech Stack:** React, Go, PostgreSQL, Docker, RabbitMQ, Kubernetes
- Developed a **time tracking system** to improve **project management, logging, and reporting**.
- Utilized **microservices architecture** for modularity and **containerization** for deployment efficiency.
- Improved team productivity through **automated time tracking and analytics**.

Image Captioning Model Feb 2024 – May 2024

- **Tech Stack:** TensorFlow, VGG16, CNN, LSTM
- Built an AI-powered **image captioning system** that generates accurate textual descriptions from images.
- Used **CNN for feature extraction** and **LSTM for sequence generation** to enhance model performance.
- Trained on **Kaggle Flickr Dataset** to improve caption accuracy and contextual relevance.

Study Rooms for Students Sep 2023 – Dec 2023

- **Tech Stack:** MERN Stack, Stripe, Agora, Sockets, ChatGPT, Redux, Tailwind CSS
- Developed a **virtual study platform** enabling students to collaborate and socialize.
- Integrated **video conferencing, real-time messaging, and AI-assisted study tools**.
- Implemented **payment processing for premium features** using Stripe.

Skills

Languages: C, C++, Python, JavaScript, Go, SQL, MongoDB, PostgreSQL

Developer Tools: Docker, RabbitMQ, Kubernetes, VS Code

Technologies/Frameworks: React, Node.js, Express, NEXT JS, TensorFlow, OpenAI, Retrieval-Augmented Generation (RAG), Vector Databases (e.g., Pinecone), Tailwind CSS, Twilio, Shad CN, Clerk, Stripe