

# MOHAMMAD MUBASHIR AHMED

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## SUMMARY

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Software Engineer with **2 years of experience** building AI-powered developer tools, modern frontend applications, and scalable backend systems. Built and shipped **Graphite**, an AI visualization platform that transforms natural language into interactive diagrams using LLMs, graph layout algorithms, and React Flow. Experienced in frontend engineering, backend APIs, cloud infrastructure, and media processing pipelines.

## EXPERIENCE

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### Associate Software Engineer

Dec 2024 – Present

XIT Solutions Inc. (Complyia), Hyderabad

- Developed enterprise compliance applications using **React**, **TypeScript**, **Zustand**, **TanStack Query**, and an **NX Monorepo**.
- Built reusable UI components, integrated complex REST APIs, and optimized application performance across production modules.

## FEATURED PROJECTS

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### Graphite — AI-powered Visual Learning Platform

[graphite.cool](https://graphite.cool)

- Built an AI-powered visualization platform that transforms natural language into interactive **flowcharts**, **architecture diagrams**, **knowledge graphs**, **hierarchy trees**, and **process maps** using structured LLM outputs and automatic graph layout algorithms.
- Built using **React**, **TypeScript**, **React Flow**, **ELK.js**, **Dagre**, **HTML Canvas**, **Node.js**, **Express.js**, **MongoDB**, **Google Gemini**, **Clerk Authentication**, enabling persistent chat history, PNG exports, and intelligent diagram generation.

### ClipGen — AI Video Processing Platform

[clipgen.xyz](https://clipgen.xyz)

- Built an AI-powered media processing platform that automates subtitle generation, clipping, overlays, multi-lingual transcription, and asynchronous FFmpeg pipelines for applying changes on videos.
- Built using **ReactJS**, **Node.js**, **Express.js**, **FFmpeg**, **Docker**, **MongoDB**, **AWS (EC2, ECS, ECR, S3, SQS)**, and **Google Gemini** with scalable containerized workers for distributed media processing.

### Quizzify — Real-time AI Quiz Platform

[Live Demo](#)

- Built a multiplayer AI quiz platform featuring AI-generated quizzes, live room management, synchronized gameplay, and real-time scoring.
- Built using **React**, **Node.js**, **Express.js**, **MongoDB**, **WebSockets**, **Google Gemini**, supporting concurrent multiplayer sessions with low-latency communication.

## SKILLS

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**Languages:** JavaScript, TypeScript, Python, C#

**Frontend:** React, React Flow, HTML5, CSS3, TailwindCSS, ShadCN UI, Zustand, React Hook Form, TanStack Query

**Backend:** Node.js, Express.js, ASP.NET Core, Flask, REST APIs, WebSockets, MongoDB, SQL Server

**AI / Visualization / Cloud:** Google Gemini, Prompt Engineering, ELK.js, Dagre, HTML Canvas, Graph Layout Algorithms, FFmpeg, Docker, AWS (EC2, ECS, ECR, S3, SQS), Git, Clerk