

Hassam Ullah *Full Stack Engineer*

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🇵🇰 Pakistan

🔗 Personal Portfolio Website

🌐 Hassam Ullah

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Profile

Experienced Full Stack Web Developer proficient in the MERN stack with 3.5 years of hands-on experience. Skilled in developing robust web applications from concept to deployment, leveraging a combination of MongoDB, Express.js, React.js, and Node.js. Adept at translating client requirements into scalable and efficient solutions, with a strong emphasis on user experience and functionality.

Professional Experience

2024/01 – present
Lahore, Pakistan

MERN Stack Engineer

SolutionsLoft 📄

Responsible for managing Backend and Database involving Nest.js Microservices Architecture, Kubernetes, Docker, AWS and MongoDB.

My contributions so far:

- Integrate AWS Personalize Recommendation Engine to capture user activity insights to enable relevant recommendations.
- Utilize Apache Airflow to write efficient and scalable pipelines for generating and seeding content through AI integrations.
- Dockerise Nest.js Microservices and deploy on Docker Hub.
- Write Github CI/CD workflows for smooth deployment pipelines on OCI Instance.
- Create Microservices in Nest.js. Implement communication between microservices through RabbitMQ and Kafka.js.
- Developed a real-time leaderboard system in a web application, allowing users to earn points and track their position. Implemented backend using Nest.js and MongoDB to handle data storage, point calculations, and efficient retrieval of user rankings.
- Building a Telegram Bot for users to interact with our in-house AI models.
- OAuth2 integrations for Social Platforms e.g. Meta, Twitter(X), Discord etc.
- Creating a Python Microservice utilizing Apache Airflow to periodically generate and seed new AI Generated content for users to play around with in gamified modules to win credits and climb leaderboards.

AI Integrations

- ElevenLabs integration for voice isolation and audio generation.
- D-ID AI integration for creating Digital Humanoids that utilize audios generated through ElevenLabs.
- Octo AI and Anthropic's Claude 3.5 sonnet (through AWS Bedrock) models for image generation.
- Worked on a reporting solution in Elixir combined with PETAL stack (Phoenix, Ecto, Tailwind, AlpineJS, LiveView). Focused on E-S-G reporting that aligns with EFRAG (European Financial Reporting Advisory Group).

2023/01 – 2024/04
Islamabad, Pakistan

MERN Stack Developer

K-Hive 📄

Got the opportunity to work on multiple interesting projects based on React.ts with Vite, Node.js and Nest.js with MongoDB.

The projects I have contributed to include:

- **Telegram Chat Automation Tool:** A web-based tool that uses Telegram Bot APIs, ChatGPT, Puppeteer and PM2 in tandem to allow users to create meaningful conversation through ChatGPT and automatically write these conversations in user's specified telegram chat groups.
- **XP Rush - An NFT Card Game:** A browser-based card game where players can own different characters, each of which represents an NFT. The players can complete quests to earn coins and level up their characters or use digital currencies to buy coins and get power-ups for their characters.
- **E-SG Cloud - An EFRAG Compliant E-S-G Reporting System:** An E-S-G (Environmental-Social-Governance) Reporting solutions created in accordance with the ESRS Reporting Standards proposed by EFRAG (European Financial Reporting Advisory Group). The European Sustainability Reporting Standards (ESRS) is a framework for companies to report on environmental, social, and governance (ESG) topics. Project Stack included PETAL stack (Phoenix, Ecto, Tailwind, AlpineJS, LiveView) combined with PostgreSQL, Docker, Gitlab CI/CD and AWS as the cloud infrastructure. Elixir programming language for Full stack web application development with Elixir's Phoenix framework combined with Elixir's LiveView framework, combined with Elixir's Ecto ORM to handle SQL operations, provided a reliable solution for creating highly scalable and fault-tolerant web applications.

2021/02 – 2022/12
Islamabad, Pakistan

Junior Backend Developer

Protovoid Technologies ☑

Gained valuable experience with Angular 12 and Nest.js frameworks, MongoDB, & SQL Databases etc. Also learnt Angular 12 in detail as part of Protovoid's initial training program and then through collaboration with experienced Angular Devs. This tenure also included a later period of 6 months as a Team Lead, overseeing project milestones and ensuring timely delivery.

Learnings & Key Take-aways

- Angular-Marerial and Ngx-Bootstrap modules for UI
- Reactive & Dynamic Forms using Angular's built-in ReactiveFormsModule module
- Handling API calls using Http and Observables modules
- Angular's Shadow DOM
- Structural and Attribute Directives etc.
- Angular DevTools to maximize productivity.
- Built deployment-ready server side application with Nest.js and Node.js in TypeScript.
- Stripe and PayPal payment gateway integrations to enable in-app-payments.
- AWS EC2 and DigitalOcean server deployment, enhanced with CI/CD.
- AWS S3 service for file storage.
- Docker basics, containerization for CI/CD

Skills

React	● ● ● ● ●	Next.js	● ● ● ● ●
Node.js	● ● ● ● ●	Nest.js	● ● ● ● ●
Redux	● ● ● ● ●	Nginx	● ● ● ● ●
MongoDB	● ● ● ● ●	PostgreSQL	● ● ● ● ●
AWS	● ● ● ● ●	Docker	● ● ● ● ●
Google Cloud Platform(GCP)	● ● ● ● ●	Github CI/CD	● ● ● ● ●
Microservices	● ● ● ● ●	React Query	● ● ● ● ●
Kubernetes	● ● ● ● ●	Apache Airflow	● ● ● ● ●
Oracle Cloud Infrastructure	● ● ● ● ●	Oracle Kubernetes Engine (OKE)	● ● ● ● ●
Containerization	● ● ● ● ●		

Education

2018 – 2021	Bachelors in Software Engineering(4 years)
Islamabad, Pakistan	<i>Capital University of Science & Technology</i> ↗
2015 – 2017	Intermediate of Computer Science
Wah Cantt, Pakistan	<i>F.G. Science Degree College</i> ↗

Courses

2022/08 – 2022/09	React, NodeJS, Express & MongoDB - The MERN Fullstack Guide ↗
	<i>Udemy</i>

References

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