

MOHAMMED ASLAM S

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EXPERIENCE

KingIT Solutions

Software Engineer

March 2024 – Present

Hungary (Remote)

- Architected high-availability Rust **Backend** systems utilizing **DevOps tools** like Kubernetes for orchestration and horizontal scaling
- Engineered prediction market DApp using Chainlink oracles/automation with 99.9% uptime on **EVM** chains
- Optimized smart contract **Gas Estimations** and consumption by 25% through storage layout restructuring

Onchain VC

Software Engineer (Blockchain, AI)

Feb 2022 – March 2024

London (Remote)

- Spearheaded development of 15+ **EVM** DApps (interacting with **ETH and ERC 20 Tokens**) using Next.js/**React.js** frontend and **Node.js Backend** with PostgreSQL/Redis
- Deployed AWS infrastructure supporting 50K+ monthly active users across staking/swapping protocols, utilizing various **DevOps tools**
- Pioneered AI-DApp integration using LLM fine-tuning (LoRa/QLoRa) for 40% faster inference
- Developed cross-chain Telegram bots (**EVM/Solana/APTOS**) handling 100k monthly requests

Pepped Ones

Fullstack Developer

Jan 2019 – Jan 2022

Trivandrum

- Built scalable REST APIs (**Backend**) with Express.js/**Node.js** and MongoDB serving 10K+ daily requests
- Contributed to **React.js**-based frontends improving user engagement by 35%
- Developed Web3 applications with Solidity smart contracts for decentralized finance platforms on **EVM** chains
- Created and maintained blockchain indexing services for on-chain data analysis

PROJECTS

ReelsFly | *Next.js, Python, FFmpeg, Stable Diffusion, TTS*

- Built end-to-end AI video generation platform enabling users to create videos using open-source video generation and image editing models
- Developed Story Mode feature that automates the entire content creation pipeline: storyboard generation, scene composition, video synthesis, and audio generation
- Integrated multiple AI models for image editing, video generation, and text-to-speech synthesis
- Designed intuitive dashboard for managing video projects with real-time generation progress tracking

Mentiq Analytics | *Golang, PostgreSQL, TimescaleDB, Redis, React.js, Next.js*

- Solely architected and built a full-stack analytics platform with high-performance Go **Backend** for event ingestion and processing
- Implemented time-series data storage using PostgreSQL with TimescaleDB extension for efficient analytics queries at scale
- Designed message queue system for reliable event processing, buffering, and horizontal scalability
- Developed lightweight SDKs for **React.js** and Next.js enabling seamless client-side event tracking integration
- Built real-time analytics dashboard with customizable metrics, funnels, and user behavior insights

Cido API Service | *Rust, Axum, Docker, Kubernetes*

- Implemented a secure Rust **Backend** API service that handles crate uploads, validates builds in isolated Docker containers, and manages deployments to Kubernetes using **DevOps tools**
- Built authentication system with JWT tokens and protected routes for managing deployments of Cido maps
- Created CI pipeline that replaces public dependencies with private crates, executes builds in sandboxed environments, and pushes validated images to GitLab registry
- Developed REST endpoints for crate deployment lifecycle including upload, build, deploy and status monitoring

Aegis AI | *Nextjs, Rust, Axum, GPT 4, Postgres, Redis*

- Designed Rust **Backend** for AI auditing system with parallelized queues for code analysis & PDF report generation
- Architected audit workflows using GPT-4 for partial/full code reviews and Redis-based task management

- Integrated NextAuth authentication and wagmi hooks for blockchain credit purchasing functionality (supports **ETH and ERC 20 Tokens**)

Jupiter Lending (Venus Fork) | *Nextjs, Solidity, React Charts, Graphql*

- Built DeFi lending DApp on an **EVM** chain with Venus Protocol smart contracts and Next.js/**React.js** frontend for liquidity tracking of **ETH and ERC 20 Tokens**
- Developed GraphQL API for real-time market data & interactive React Charts for financial visualizations

EDUCATION

College of Engineering Trivandrum

BTech Electrical and Electronics Engineering - CGPA - 8.38 (First class)

Trivandrum, Kerala

SKILLS

- **Languages:** Rust, Golang, Typescript, JavaScript, SQL, Python, C, C++, Move, Huff
- **Web Technologies:** **React.js**, Next.js, **Node.js**, Nest.js, Express.js, Flutter, Actix, Axum, Redux, Tailwind, Gin
- **Blockchain:** Solidity, Foundry, Hardhat, Ethers.js, **EVM**, **Solana**, **ETH and ERC 20 Tokens**, **Gas Estimations**, Web3.js
- **Backend & Databases:** Rust (Actix, Axum), Go (Gin), Node.js (NestJS, Express), PostgreSQL, TimescaleDB, MongoDB, Redis, Prisma, Supabase
- **DevOps & Tools:** Docker, Kubernetes, Linux, Git, AWS, GCP, Azure, Langchain, Dspy, LangGraph
- **AI/ML:** Machine Learning, Deep Learning, LLMs, Video Generation, Stable Diffusion, FFmpeg