ALFAZAL

Software Developer

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SKILLS

Languages

JavaScript	TypeScript	Golang	Rust	Solidity

Tech Stack

Nodejs	Docker	Web Sockets	Reactjs	Nextjs

Databases and Cloud

Postgres	Redis	MongoDB	AWS	Kafka

PROJECTS

VercelX

🔗 github.com/Alfazal007/vercel

- Built a vercel like application which allows users to deploy their react frontend.
- Engineered an **upload service** which accepts a github url of a project and pushes the event to redis queue.
- Wrote a **builder service** which reads from the queue, clones the project, builds it and deploys it.
- Architectured a **request handler** which redirects the users to their deployed project.
- Technologies used: Nodejs, Reactjs, Cloudinary, Redis, Postgres.

Load Balancer

🔗 github.com/Alfazal007/load-balancer

- Built a load balancer service, that distributes the server load in a distributed architecture.
- Implemented **round-robin**, weighted-round-robin, and least connnection based load balancing algorithms in golang.
- Wrote an **orchestrator** in rust that checks health of api servers and keeps the load balancing servers updated with this data.
- Used **prometheus** to monitor server loads which is used by the orchestrator to manage the number of apiservers.
- Used docker to containerize each component.
- Technologies used: Rust, Golang, Docker, Postgres, Prometheus.

Code Arena

🔗 github.com/Alfazal007/code-arena

- Built a leetcode like platform, where users can solve coding challenges.
- Used **judge0** to evaluate users' code in a safe and containerized fashion.
- Used redis **sorted set** data structure for live ranking the users in a contest.
- Wrote a script to generate boilerplate code in 2 different languages including javascript and rust.
- Technologies used: Typescript, Reactjs, **Turborepo**, Postgres, Redis.

VR Art Museum with NFT Marketplace

🔗 nft-vr-next-js-front-end.vercel.app

- Built a **blockchain** and VR-based project that allows users to mint their own NFTs and list them in a marketplace.
- Using Unity game engine, developed a **VR art gallery** where users can view these NFTs alongside a historic museum.
- Users can trade these NFTs in the marketplace using Ethereum.
- Technologies used: Unity VR, Solidity, Nodejs, Nextjs, Figma.

EDUCATION

2020 - 2024   ●   BE - Computer Science & Engineering
Sai Vidya Institute of Technology
CGPA **8.9** / **10.0**