Muhammad Ibrahim

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SOFTWARE ENGINEER

As a software engineer, I worked in a startup and fast-paced projects. Having success in building products and support. Experienced with working on startup projects with remote teams. I am looking forward to applying my knowledge to existing systems and adapting new things to apply them in the real world. In my spare time I love to solve programming problems on leetcode and watch some shows on netflix with part time freelancing.

CORE TECHNOLOGIES

Operations
Docker ♦ Docker-Compose ♦ Kubernetes ♦ AWS ♦ Git

Development
Javascript / Typescript ♦ React Js / Next Js ♦ Node Js / Express Js / NestJs ♦ Sql / noSql Databases ♦ Microservices ♦ Caching ♦ Search Engine

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WORK EXPERIENCE

Techdots.ltd   (01/2021) - Present
Team Lead | Software Engineer
Merchflow App (linked website): A merchandise related app that will enable us to connect with distributors and merchants with third party vendors via our system using their curated products catalogs.
(PERN Stack, NextJs, Docker, Redis, Meilisearch)

- Setup project from scratch using Nodejs, ReactJs and containerize using docker and docker-compose.
- Build database schemas from scratch by looking at the potential vendor api response and make migrations accordingly using **Knex.**
- Integrate third party vendors **S & S** and **Sanmar** using **cron-scheduling** and configure them using **proxy stream api call** to setup data in our DB.
- Increased user security by implementing **aws-cognito** auth system for **robust** and **secure user credentials** also use **forgotten password functionality** and **aws-lambda trigger** to auto verify email when signUp.

- Decreased api call usage by implementing **redis** as a separate module to **cache** our call for a specific number of time.
- Implemented initial **migrations** for database design tables and set up **generic routing** for protected and unprotected routes.
- Decreased DB query time **50%** by using custom **raw queries** and **optimization** and further enhanced it to **90%** by using **meilisearch** as our **search index resulting** in query. Reduced time to under **1 sec** from **8sec** for around **1 million products**.
- Configure multiple cron jobs to integrate in our system so that whenever cron updates in our DB there will be another cron job of **meili search** indexing so that we get fresh products docs in our index.
- Implemented a **multi-tenant architecture** to enhance **customizations**.
- Implemented **FileTransferProtocol** generic function to fetch file data from host.
- Configure all the settings for **dev**, **staging** and **prod** in docker-compose so that new joiners can easily setup project on their system using docker
- Implemented different generic components in **NextJs, ReactJs,Typescript** including **Tables**, **InfiniteSelectDropdown** using react-async package, **MultiSelect**, **Header** based on user logged in state and more.
- Increased Frontend side efficiency by including **infiniteSelectDropdown** component. It significantly increased our app speed
- Dynamically mapped data coming from backend to frontend table so that only those keys that are available in header should be mapped to reduce errors
- Write test in CircleCi for integration test.
- Deployed staging build to **Digital Ocean** for meiliseach droplet, postgresDB, backend, frontend, redis.
- Worked on multiple projects simultaneously

Techdots.ltd (09/2021) - (03/2022)

Microservice-S3: REST API for file uploads and metadata management utilizing AWS services and SQL database, with a focus on scalability, security and user experience.
(Node, Typescript ,AWS-services)
- Developed a REST API for file uploads and metadata management
- Utilized NodeJS and Typescript for the implementation
- Implemented serverless architecture using AWS Lambda
- Utilized AWS S3 for public file storage
- Integrated with AWS RDS SQL for storing metadata and image URL, filename
- Returned a response that includes the public URL for the file
- Built with scalability, security and user experience in mind
- Continuously adding new functionality to the API with the same architecture.

Techdots.ltd   (03/2021) - (09/2021)

Renteez App (linked website): An app that can list down properties of the owner and renters can view their rent information
(PERN Stack, NextJS)
- Integrate **OAuth** system and configure google auth and github auth using **passportjs**
- Implemented API's in **Apollo GraphQL** and configure it with backend and frontend to use mutations and queries
- Implemented **Landing page** and **Timer functionality** for upcoming events.
- Implemented initial dashboard and some other feature include recent payments made and upcoming payments catalog
- Implemented **payment** using **stripe** for recurring **monthly payments** to **landlords.**

Techdots.ltd   (01/2021) - (08/2021)

Reelcall App (linked website): An app that can link casting directors with talent in the fashion industry.
(PERN Stack, NextJS)
- Integrate frontend and backend both
- Implemented page designs in nextjs
- Implemented full backend auth guards for protected routes
- Implemented and fine tuned some queries in typeorm
- Implemented auth system in cognito
- Handle different tickets assigned separately.

Devigital-Sytems   (02/2020) - (12/2020)
Software Engineer
System-automation (linked website): They are working on collection of app to automate licencing having mobile app and web app version *(MERN Stack)*
- Worked on learning **React**, **Node** etc.
- Implemented generic components that were used across the whole app.
- Fixed production bugs in my span of time there.
- Implemented a new feature in React called **infinite-scroll** to load specific limit of data from backend at one time and rest limit on scroll end and eventually used in whole app where we are using table component.
- Implemented **theming** using **material-ui** to provide **customized user interface**.
- Implemented some apis in node js including frontend work of **infinite-scroll** that has to be dealt with backend for **limiting** and **offsetting**.
- Used **redux-saga** and **redux** for async actions and global state management simultaneously.
- Fine tuned existing queries developed by colleague to **decrease query time.**

PART-TIME EXPERIENCE

Ticketing App   (05/2022) - Present
A website based on purchasing online tickets with real time data sharing
(Node JS, Next JS, Docker, Kubernetes, Microservices, Nats, Redis)
- Developed a **rest API based microservices** using **MongoDB and Nodejs** from scratch.
- Implemented proper folder structure that is required for microservice.
- Implemented **nats streaming** to publish events and listening events by consumers.
- **Containerize** whole services in docker and pull that images in kubernetes for scaling each service pod according to their need.
- Implements each service **k8s** deployments to enhance scalability.
- Configure skaffold for dev environment to rebuild image and apply changes to deployments whenever we change something on code.
- Implemented **payment** using **stripe**.

Upwork
link: https://www.upwork.com/freelancers/~0189ce7b93bd1c0018

- Top rated on upwork
- Completed several project tasks on upwork
- Implement some aws service solutions projects and got 5 star review from my long term client
- Solved third party developer tickets

Leetcode (problem solving**)**
- Solving problem on leetcode in spare time

EDUCATION

- Bachelors in Computer Science (2016 - 2019)   UCP, Pakistan
- Intermediate in Computer Science (2014 - 2016)   Punjab College