

# Mohamed Arshad Pakkali

## Full Stack Developer

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### Professional Experience

#### Akratech

2021 – present | Remote, Remote

##### FULL STACK DEVELOPER

- Uphabit, Canada

- Worked as a Backend, Front-End developer on the Enhancement stage of the Live application with 25k users
- Worked on improving their Queuing system on the Backend Using Bull Queues and Redis
- Developed and Designed multiple Features (Eg Referral, Bulk API's, Outh provider etc) on the Backend using Technologies such as Nest.js, Postgres, Knex
- Enhanced a Slow API's Response from the 40s to 3s by profiling and reducing complexity on validation which reduced the server load by 50%
- Gained a strong knowledge of all GOF (creational, behavioural, structural) design patterns and the MVC, MVVM, MVP architectural patterns
- Developed a Complex Feature on the front end called introductions which uses indexed DB, dexie.js etc
- Strong knowledge of Offline capable Front end architectures which involves Client-side Databases such as Indexed DB, background sync etc
- intensively worked on Front end technologies such as React, Redux,Material UI and have developed multiple Reusable and Pluggable UI components
- TECH STACK - Typescript | NEST.js | POSTGRES | REDIS | MQ (BULLMQ) | Bulk/Batch API | OPEN API(swagger) | Grafana | Prometheus | Mocha
- FRONT END - React.js | Material UI | Redux | Dexie.js | indexed DB | Jest

#### Qmax systems

2020 | CHENNAI

##### FULL STACK DEVELOPER

- Developed and maintained a Staging environment that improved testing and productivity by 50% during Remote work
- Single-handedly Developed Cloud-infra, Backend, UI of a client project using Node.js,Angular,Mongo which reduced the overall Cost thus improving profitability by 25%
- Developed a Project Management Dashboard using Node.js and angular which improved tracking of projects and Time spent on those by the developers
- Made a complete revamp of the company's careers app which technically improved tracking, hiring of applicants by over 90%
- Deployed and Administrated an Asset and component Management system which improved the Tracking of Assets
- Tech Stack used - Node.js | React | Angular | Express | Mongo | AWS EC2 | Docker | Nginx. etc

## Projects

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### **PmDash - Qmax**

*A Project Dashboard which tracks Employee Time, Project Expenses and the current Project margin and auto generates reports based upon the project status*

Technologies Used

Angular | TypeScript | Node.Js | Express Js | MongoDB

### **IoT Dashboard**

*A lot Sensor and Devices Dashboard which visualizes the different lot Sensor the Application is connected to and will monitor the Status of those applications*

Technologies Used

Angular | TypeScript | Express js | Socket .io | Mqtt | Mongo

### **Simple LocalTunnel Dashboard**

*A Ngrok Like dashboard for the incoming/outgoing network Traffic for the localtunnel Library*

Express, Javascript, SSE

### **AWS IOT Telemetry Dashboard**

A simple AWS IOT Telemetry dashboard using

AWS IOT | AWS Quick Sight | aws kinesis Data Firehose

### **Burger Builder**

*A custom made burger ordering application In which Users can Create burger with ingredients and the checkout at the checkout page*

Technologies Used

React | Redux | Firebase | Firestore

### **Secrets**

*A sahara clone, where users can basically submit anonymous messages to other users*

Technologies Used

Nodejs | Express | Passport | Oauth

### **Daily Journal**

*A Basic Blog site in which users can update the blog by adding markdown files which the site reads and adds to their blog*

Technologies Used

NodeJs | Express | Passport | Mongoddb

## Technical Skills

### Front End Tech ● ● ● ● ●

Lang: Typescript, Javascript  
Frameworks: React, Angular, Ionic, Next.js  
State Libs: Redux, NgRx  
Databases: Dexie.js  
UI Framework: Material, Bootstrap,  
UI Lang: CSS, SCSS  
TDD: JEST, Cypress  
Misc: Socket.IO, react-query, Rx.js, WebRTC  
Exposure: Svelte, Vue, Elm, Elm-UI.

### Dev-ops Skills ● ● ● ● ●


Tools: Docker, Kubernetes, Vargant  
Cloud: AWS, Azure, Firebase  
Services:  
AWS - EC2, EKS, ECR, S3, ELB, IoT  
Azure - IoT Hub, DPS  
Firebase - OAuth, firestore, Cloud functions  
VCS: Git - Github, GitLab  
Scrum: Jira, Trello  
CI/CD: Circle-CI, Travis-CI

### Theoretical Skills

Front End Architectures - MVC, MVVM  
BackEnd Architectures - DDD, Hexagonal Architecture etc.  
Programming - OOP, FP  
SOLID, YAGNI Etc.

## Certificates

Responsive Web Design - Free Code Camp 

JavaScript Algorithms and Data Structures 

## Education

### B.E

Francis Xavier Engineering Collage

## Courses

### RESPONSIVE WEB DESIGN

FREE CODE CAMP

### JAVASCRIPT ALGORITHMS AND DATA STRUCTURES

FREE CODE CAMP

### COMPLETE WEB DEVELOPMENT BOOT CAMP 2020

UDEMY

### REACT - THE COMPLETE GUIDE

UDEMY

### Backend Skills ● ● ● ● ●

Languages: Typescript, Javascript, Python  
Frameworks: Nest.js, Next.js, Express, Koa, FastAPI  
Protocols: HTTP, Websockets, MQTT  
API: REST, (T)RPC, GraphQL  
Databases: Postgres, Mongo, Prometheus  
Cache: Redis  
MQ: RSMQ, Bull MQ, Kafka  
TDD: Mocha, Jest, Puppeteer  
Monitoring tools: Grafana  
Misc: OIDC, JSON-schema, CQRS.  
Exposure: GO, Go-goinc/gin, Elixir, Elixir-Pheonix,

### Work Flow

Linux:  
Distro: Arch Based, Debian Based  
Init: systemd  
shell: Fish, Bash, Zsh  
Editors: Neo-Vim, Vs-code, Doom-Emacs  
Shell: Fish