

**Mohammed Arshad Hassan**  
Full Stack Developer (5 Years)

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## Profile & Objective

<b>Results Driven</b>	Determined and hardworking; Demonstrate intellect quickly and efficiently.
<b>Dedicated</b>	Self-motivated professional with integrity and an eye for knowledge.
<b>Detail Aligned</b>	Attentive to requirements and implement solutions that exceed requirements expectations.
<b>Objective Oriented</b>	Plan, collaborate and build minimum viable product(MVP) as efficiently as possible to accomplish objectives within specified deadline.
<b>Goal</b>	To work in a challenging environment leveraging cutting edge technologies to accomplish client needs and be of value to the company.

## Education

<b>M.S. – Masters in Computer Science(Major in Software Engineering)</b>		
2020 - 2022	-University Of Wollongong, Sydney	Distinction
<b>B.E. – Computer Science &amp; Engineering (CSE)</b>		7.5/10
2014 - 2018	-Panimalar Engineering College, Chennai	
<b>Higher Secondary School (Science group + Computer Science)</b>		90.91%
2014	-Kumaran Asan, Higher Secondary School, Chennai	
<b>Secondary School (SSLC) (CBSE)</b>		9.8/10
2012	-Asan Memorial, Senior Secondary School, Chennai	

## Skills

<b>Technical Skills</b>	<ul style="list-style-type: none"><li>· HTML, CSS, Javascript ES14, Typescript 5.4</li><li>· NodeJS, ExpressJS, Prisma, Mongoose</li><li>· REST APIs, GraphQL APIs, React Query</li><li>· PostgreSQL, MongoDB, MySQL</li><li>· Git, Github, Bitbucket, Gitlab</li><li>· NPM, Yarn, PNPM, Bun</li><li>· Test Driven Development, Formal Methods</li><li>· AWS Lambda, Cloudfront, Cloudwatch</li></ul>	<ul style="list-style-type: none"><li>· ReactJS, NextJS, GatsbyJS</li><li>· Redux, Mobx, Zustand, Signals</li><li>· SCSS/SASS, MUI, Semantic UI, Tailwind</li><li>· Contentful CMS</li><li>· Python, Django</li><li>· Babel, Webpack, Vite, Turbopack</li><li>· Jest, Enzyme, Cypress, Playwright testing</li><li>· AWS Lambda, Cloudfront, Cloudwatch</li></ul>
<b>Personal</b>	<ul style="list-style-type: none"><li>· Quick learner &amp; Excellent debugging skills</li><li>· Leadership skills</li><li>· Meticulous &amp; Diligent</li></ul>	<ul style="list-style-type: none"><li>· Good communication skills</li><li>· Team worker</li><li>· Goal-oriented</li></ul>

## Work Experience

### Talent Inc.

- Senior Frontend developer working primarily in React, Gatsby and Contentful CMS.
- Developed a mix of SSG, SSR, and SPA pages, tailoring the rendering approach to optimize performance and user experience for each section of the website.
- Led the modernization and implementation of multi-site themes and design systems adhering to the Figma specifications.
- Boosted Core Web Vitals scores by 20% on mobile and 10% on desktop.
- Enhanced the application with a user-friendly resume upload feature, including drag-and-drop functionality and seamless mobile compatibility, all configurable via contentful.

- Automated data migration within Contentful using custom bulk migration scripts, significantly reducing manual effort.
- Upgraded the sites to leverage the latest features and performance improvements of Gatsby 4.
- Optimized the codebase for Docker builds, streamlining the deployment process.
- Enabled comprehensive user behavior analysis by implementing site-wide Mixpanel tracking for page views and CTA clicks.
- Streamlined analytics setup with a Contentful integration, empowering non-technical users to easily add tracking.
- Resolved browser compatibility issues for OAuth login, ensuring a seamless login experience across all browsers.

### **Credibled**

- Lead Frontend Developer. Implemented react best practices to improve code quality, performance and maintainability.
- Migrated the entire codebase from Javascript to Typescript with strict Typescript rules.
- Architected complex stateful logic and multi-modal UIs that look good on various screen sizes.
- Refactored the entire codebase to use declarative code.
- Implemented several custom hooks with a noteworthy hook being a paginated infinite scroll hook that can be used within any function component to implement infinite scrolling.
- Built a custom drag and drop component that works both on cursor and touch based inputs
- Implement fraudulent activity detection using IP and geolocation APIs.
- Implemented react-router v6 for more declarative and performant data fetching and route handling.
- Refactored all data fetching useEffects to useQuery from React query for better data fetching semantics.
- Built email templates to work and look uniform on outlook, gmail & the MacOS mail app.
- Upgrade all outdated and vulnerable dependencies to their stable semantic versions and address all breaking changes.

### **UpHabit**

- Revamped and reorganized the whole Uphabit UI based on figma designs with several different theming options.
- Upgraded project dependencies to latest versions in order to eliminate potential threats as described by yarn audit.
- Used Material UI theme provider to engineer a theming solution to facilitate seamless and delay free switching between dark and light modes on the UI.
- Developed a chrome extension using typescript and react for the Uphabit web application that scrapes user data from providers like Gmail.com, outlook.com and linkedin and presents it in a list format with options to add, view and edit contacts. Also has a sign in feature prerequisite.
- Implemented indexedDB CRUD operations to speed up the overall web application and reduce network calls.
- Implemented Data visualizations using the Recharts library for admin users to view statistical time-series data.

### **SunDAT**

- Worked as a Full Stack Software Engineer (SE) for Sundat.io on the MERN stack(MongoDB, Express.JS, ReactJS & NodeJS) as well as a purely Frontend engineer using React with Typescript, Material UI for uphabit.io.
- Worked in multiple, composite repositories that liaise using REST APIs to facilitate data transfer.
- Implemented JWT based authentication to protect a collection of routes by only sanctioning access via authorization tokens generated from the authenticated application thereby preventing endpoints from being illegally perused.
- Designed and curated an email verification module using the Mailgun API that triggers an email upon registration which needs to be viewed and interacted to validate an account creation.
- Worked on porting a part of the ruby codebase into javascript to decommission the ruby code base.

- Used Loggerdb to track and log features that are utilized by users on sundat.io for tracking feature usages.
- Added a feature usage limit check that prevents freemium users from exceeding their monthly quota on certain premium tools on the web app.

## **Accenture**

- Worked as a Software Engineer (SE) primarily dealing with building complex web applications using ReactJS for building modern and optimized MVC design pattern based applications.
- Converged with offshore stakeholders to garner requirements for a prevailing web application based on ReactJS to add features such as a global data store using Redux to reduce hunew component routes, Asynchronous data fetching from REST and GraphQL APIs, Sanitizing data before updating the backend, Implemented Side Effects using React Hooks and manipulated the DOM using JQuery, Implemented Material UI from Google, UI optimizations to decrease page load times and improving caching of assets, and intuitive Modal views using ReactJS, Redux and React Router.
- Backend backlog includes updating the database schema to accommodate breaking changes, testing and creating new stored procedures on Microsoft SQL Servers. Developed and executed component tests using JEST test runner and Enzyme. Proposed NoSQL alternatives for future release.
- Furthermore, Worked in an analyst capacity examining and orchestrating operations including monitoring application health, batching tasks, mentoring junior resources and resolving IT tickets.
- Automated a tedious weekly task of consolidating time sheets of various teams working under the F&BO branch in Pfizer.
- Identified and engineered a fix to a critical bug that rendered a spreadsheet processing application unusable alleviating the company from a crucial delay improving company throughput.

## **Side Projects**

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### **Image Caption Generator using Deep learning (March 2021)**

- A web based application that generates semantically accurate contextual captions for any given image.
- Leverages the prowess of deep learning model namely the Transformer Network trained on the COCO dataset to produce effectual captions.
- Technologies Used: Transformer neural network, HTML, CSS, ReactJS, Redis, Celery, Heroku.

### **The Barter app(December 2020)**

- A web based full stack application with authentication and image hosting that allows users to signup and start posting and trading their valuable belongings based on interests and locality.
- Home page shows a quick birdseye view of all the barterers available all over the world through the mapbox map API with intuitive clustering of similarly positioned barterers.
- Users can give ratings as well as comment on posts of other barterers to get further details.
- Technologies Used: HTML, CSS, Bootstrap, Javascript, NodeJS, PassportJS, MapBox API, Express server, MongoDB, Mongoose ORM, Cloudinary image hosting, Heroku.

### **Elderly Fall Detection App(January 2018)**

- An android application which when installed and provided with the required permissions, It can detect when a person has fallen down.
- Based on the preferences set by the app user, It alerts their registered family members through a text message regarding the incident.
- Also sends the geolocation of the fallen person in terms of latitude and longitude which when touched on will pinpoint to the exact location of the fall.
- Family members or friends can then navigate to that location using google maps and do the needful on reaching the location.
- Technologies Used: Flutter, Google location API, Android Messaging API.

## Inplant Training & Workshops

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- **Ruby on Rails web development**
- **Inplant Training on GIT**
- **Business English Certificate course**

Feb 2017, VIT University

Dec 2015, Uniq Technologies

Sep 2015, Cambridge University