

# DHRUV SHAH

SOFTWARE ENGINEER

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## SUMMARY

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- Total experience of 3 Years in the development of a diverse range of applications.
- Lead development of a critical application exhibited at Mobile World Congress 2019.
- Worked closely with UI/UX Teams and contributed extensively in design workshops.
- Conferred with "Digital Champion" award for specializing in User Experience Development.
- Worked closely with Product Owners and contributed actively in product development.
- Possess experience in Agile Methodology of Product Development and working with multiple teams.
- Experience in developing high-performance front-end applications using Angular 2/4/6, React.
- Diverse skill-set in developing Map-based applications with real-time data integration.
- Undertook classroom training in Full Stack Application Development for a batch of 25 associates.
- Graduated with Master Degree (M.Tech) in Machine Learning in 2016.
- Published and presented a research paper on Recommendation Systems at IEEE TENCON 2017.

## TECHNICAL SKILLS

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- JavaScript
- Angular 2/4/6
- React, JQuery, Redux, NgRX
- HTML 5 And CSS 3
- Cordova, Ionic (Hybrid Mobile Development)
- NodeJS
- MongoDB, ElasticSearch, SQL
- Kubernetes and Docker
- Cloud Platform Services (Azure, Google Cloud, OpenStack, Bare Metal Setups)
- Automated Deployment Setups ( Jenkins and Heroku)

## PROFESSIONAL EXPERIENCE

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TATA CONSULTANCY SERVICES

(JUNE 2016 – PRESENT)

Associated as a System Engineer with TCS Interactive Unit and have been responsible for delivering Web based applications as well as Hybrid Mobile Apps for Telecom/Network based customers.

In this role, I have:

1. Contributed in product development for a large Network and Telecom Equipment Manufacturer.
2. Partnered with senior leadership to understand their challenges and deliver under critical conditions.
3. Partnered with Pre-Sales Team for customer demos and presentation.
4. Planned and implemented coding best-practices to improve quality of products delivered
5. Successfully steered and delivered customer critical requirements.
6. Coordinated with UI/UX Teams and lead teams for delivery of Full-Stack Web Applications.
7. Cultivated good relationships with Product Owners and Program Managers.

## PROJECTS

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### DATA BROKERING PLATFORM (IoT BASED SOLUTION)

Data Brokering Platform for DriveSweden is a collaborative platform where developers and different smart-services providers can collaborate to create a market place for exchanging Data through APIs and Data Streams for solving the current problems in in the Transport and Smart Driving sector of Sweden.

Features:

1. Market place for onboarding APIs and tracking their subscription and monetization.
2. Real-time data integration and visualization over a map using MapBox and Leaflet as map-provider.
3. Reporting usage and analytics to data-owners and role-based access for different offerings.
4. Integration with API-Manager and SAP Products for digital licensing and application usage tracking.
5. Supports multiple user-onboarding flows according to customer's requirements.

Role:

1. Developed and configured scalable code base for UI in Angular 6 and backend services in NodeJS.
2. Developed multiple node-modules that are being used across applications.
3. Proposed and developed real-time data integration and live-tracking of devices on Map UI.
4. Contributed in deployments of containerized applications over Kubernetes.
5. Performed code-reviews and improved quality of delivery.
6. Contributed in Sprint Planning and Story Creation for various requirements.
7. Headed the team responsible for creating multiple marketing demos of the application.

Technology Stack:

1. Angular 6
2. NodeJS (Express Server)
3. Sequelize (ORM)

4. MongoDB
5. MapBox and Leaflet APIs
6. Kubernetes and Docker

## NETWORK INCIDENTS REPORTING TOOL (NEAR REALTIME)

Network Incidents and Reporting Tracker is a smart and visualization intensive tool for tracking network incidents for a network and telecom operations team. It is integrated with a database that injects near-real time data of predictions according to network incidents.

### Features:

1. Near-Real Time integration with an AI Platform.
2. Handle fast data-injections and create visualizations for the data.
3. Integrated with third-party applications for automating tasks based on user's inputs
4. Rich interactions for smartly representing various KPIs

### Role:

1. Development of the multiple modules for data representation.
2. Developed REST based web services to integrate with third-party APIs and inject data in the UI.
3. Responsible for deployment of the product.
4. Deployed the setup in a containerized environment for a demo and maintained change requests.

### Technology Stack:

1. NodeJS
2. React and Redux
3. ElasticSearch
4. Kubernetes and Docker

## MOBILE APPLICATION FOR BANKING SERVICES

A hybrid mobile application developed with a purpose to migrate a range of banking services offered by a leading UK Based Bank over a Mobile Application to increase engagement with the new generation banking customers. This application was created as a part of a proposal by the pre-sales team for exhibiting possibilities and capabilities.

#### Features:

1. Integration with Alexa Voice Assistant for services like Branch Locator and Appointment Creation.
2. Chatbot module integrated with Microsoft NLP Tool LUIS.
3. Interactive multi-step form for user-onboarding.

#### Role:

1. Developed the full mobile application in Ionic
2. Created backend services in NodeJS, LUIS Integration Suit.
3. Integrated with third-party API services like Zillow and Four Square.

#### Technology Stack:

1. Ionic 3
2. NodeJS (Express Server)
3. Microsoft LUIS REST Services
4. Cordova

### GLOBAL ASSET TRACKING TOOL

Asset tracking tool is a data-visualization toll with intensive chart representations developed with a purpose to replace boring bar-charts and pie charts with custom visualizations developed using ECharts and JavaScript. This application was used in Large Screen Displays at various offices of the customer.

#### Features:

1. Custom Globe Representation for global asset movement visualization
2. Data integration and near-real time updates on asset movement supported by REST Services
3. Rich UI for minimalistic representation of information on large screens.

#### Role:

1. Developed all the UI modules for data-representation.
2. Developed REST based web-services and created Auth and Login Modules.
3. Created data integration module for ElasticSearch database.

#### Technology Stack:

1. Angular 2
2. NodeJS (Express Server)
3. ElasticSearch