

# GYAN PRAKASH

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## Education:

- M.S - **Computer Science**, University of California, Riverside, CA. April 2021  
Coursework: Artificial Intelligence, Information Retrieval and Web search, Design and analysis of Algorithms, Big Data Management and Cloud Computing.
- B.E – **Computer Science & Engineering**, Bangalore Institute of technology (Bangalore, India). July 2015

## Skillsets:

- JavaScript (ES5 & above) – React.js with Redux, Node.js, Express and jQuery.
- Bigdata Platforms – Spark and Hadoop.
- Web design - HTML5, CSS3, SASS, Material UI, Bootstrap and Media queries.
- Java and Python – Basic
- Dev-OPS tools – Jenkins, GitHub, and Docker.
- Databases- MySQL, MongoDB.
- Cloud – AWS lambda, Kinesis streams, EC2, S3.

## Professional Experience:

### E-Governments Foundation - Senior Software Engineer Oct 2017- July 2019

- **Rainmaker**: Developed four major applications for citizens naming Public Grievances Redressal, Property Tax, Solid Waste Management and Trade License. The platform eventually attracted **950+** clients across India.
- Built a configuration-based **Framework** on top of React.js to generate UI dynamically and perform CRUD operations by just reading a JSON/YAML Config. It enabled non-technical teams to create the web pages themselves.
- **Lead** a team of **4**, Owned Property Tax module and for its Development and further enhancements.
- **SWM Tracker**: A Live tracking app written in NodeJS and React.JS for both admin and garbage collecting trucks, fetching and displaying real-time data on the **Google Maps** using **Socket.IO**.

### TESCO - Software Engineer Sep 2015 – Oct 2017

- Revamped Tesco Clubcard web application with user personalized components displaying Recommended products, Clubcard data and statement details which increased target audience up to **1.6** times and improved user experience.
- Created Test suites using **Mocha** testing framework and assertion tools like **Chai**, reducing pre-production QA time to less than half. Thus, achieved quicker releases.
- Worked on automating **CICD** pipeline for the Clubcard app deployment using orchestration tools like **Docker** machine, **Jenkins** and **GitHub** to support multi-server version controlling and make rollback process hassle-free.

## Projects:

- Developed hate **tweet** recognition using **Kinesis Streams** to receive data from Twitter streaming API and used **AWS Lambda** function and S3 to train and run ML model using ML libraries.
- Tested **cloud** serverless capabilities for concurrent requests and load handling of AWS lambda and **OpenStack VM**.
- Designed a **search engine**, by crawling twitter data and indexing it appropriately to make search efficient in Python and deployed using **docker** containers.
- Built a **3D Road network** and Visualized it using Google Earth. Used **Digital Evaluation Model** (DEM) to show **altitude** of the points on the road, integrated with 2D road network data from the **OpenStreetMap**.
- Analyzed US weather data of four consecutive years using **Spark SQL** and **Java** and generated report on the Weather pattern of various states in the US.

## Additional Skills and Achievements:

- Conducted Workshop on “Actions on Google”, training participants to create custom Actions on Google’s API.AI.
- Received the Superstar award for outstanding performance in Goodworklabs (Egov) for year 2018.
- Earned a Star Award for the development of dynamic Shoppers data display component for the Tesco’s Clubcard users.