

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

Skills:

- 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
- .Net Framework and MVC architecture.
- Dev-OPS tools – Jenkins, GitHub.
- Databases- MySQL, MongoDB.

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.
- 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.
- Owned Property Tax module and lead a team of four 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**.
- Collaborated with **AI** team to gather data and train **ML algorithms**, which was used to determine the type of garbage being collected in the bins using a live camera by **Image recognition** and classification using CNN.

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 and improved user experience to a large extent.
- Have worked on **.Net** framework implementing **MVC** architecture to create dynamic views with API data.
- Created Test suites using **Mocha** testing framework and assertion tools like **Chai**.
- Automated **CICD** pipeline for application deployment using orchestration tools like **Jenkins** and **GitHub** for source control management.

Projects:

- 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 **OpenStreetMaps**.
- 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.
- Created Actions on Google Assistant using **Api.AI**, providing conversational Interfaces with 100% error handling in **Dialogflow**.
- Built a multi-resolution image fusion application to enhance blurred image definition. Used wavelet transform technique and average RGB algorithm of **Image Processing**.

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.
- Got a Star Award for the development of dynamic Shoppers data display component for the Tesco’s Clubcard users.
- Participated in “Lanka Reloaded-Manual Robot Competition-2012” event held at NIT Trichy.