GYAN PRAKASH

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Education:

- M.S - **Computer Science**, University of California, Riverside, CA.   Dec 2020
  Coursework: Artificial Intelligence, Information Retrieval, Design and analysis of Algorithms, Big Data Management, Cloud Computing, Data Mining and Natural Language Processing.
- B.E – **Computer Science & Engineering**, Visvesvaraya Technological University, Karnataka, India.   July 2015

Skillsets:

- JavaScript (ES5 & above) – React with Redux**,** Node.js, Express and jQuery.
- Bigdata Platforms – Spark and Hadoop.
- Web design - HTML5, CSS3, SASS, Material UI, Bootstrap and Media queries.
- Programming languages - Python, Java, C#(.Net), C and C++
- DevOps tools – Jenkins, Nginx, GitHub, and Docker.
- Databases- MySQL, MongoDB.
- Cloud – AWS lambda, EC2, EMR, CloudWatch, CloudTrail, RDS, SNS, SageMaker, Kinesis streams, S3 and GCP.
- Operating systems – Linux, Windows.

Professional Experience:

BJ's Wholesale Club – *Cloud Engineer Intern*   July 2020 - Sep 2020
- Automated the process of building **EMR clusters**, incorporating EC2 Spot prices and running Spark jobs. Ensured High availability of Task node instances and optimized the cost of running a cluster up to **70%**.
- Built a notification system for **RDS** Events and **EC2** Spot Instance failures using SNS, **CloudWatch**, **CloudTrail**, and **CloudFormation**. On-time maintenance and error alerts reduced downtime issues.

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 **ReactJs** 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:

- Designed and developed **DashBill** - a membership management and payments app, end-to-end using **NodeJS** for Backend with **MongoDB** and Front end in **ReactJs**. AWS EC2, S3, Nginx, and **Docker** for Server hosting and deployment.
- 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.

Achievements:

- 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.