Kalluru Rithin Paul Reddy

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#### **EDUCATION**

**Amrita University,** Coimbatore, India

*Bachelor’s of Technology in Computer Science & Engineering.*

Coursework: Big Data Analytics, Data Structures, Database Management Systems, Networks, Design & Analysis of Algorithms, Operating Systems, Object Oriented Programming.

#### **SKILLS**

**Languages/Technologies:** Java, Python

**Platforms and Tools:** Windows, Unix/Linux

**Web Technologies :** HTML5, Bootstrap, Semantic UI, CSS3, Javascript, JSON, XML, Nodejs

**Frameworks :** Django, Angular, Django REST Framework (DRF), Ionic, ExpressJs

**Databases :** MySQL, PostgreSQL

**Tools :** Microsoft Visual Studio Code, Git, Trello, Docker

#### **EXPERIENCE**

**Tata Consultancy Services -** *Systems Engineer June 2018 - Present*

* Developed the workforce management application based on my web development experience using Django (Python Web Framework)
* Developed the REST APIs for the above application and responsible for making it viable for Mobile platform using Django Rest Framework (DRF).
* Responsible in designing the schema of the database of the application considering every requirement of client.
* Developed an upload portal which runs on premise for a health care client where the patient data gets processed and procured to a cloud service
* Documented and tested the application and produced the report for experienced team members for production support.
* Assisted web development team on developing digital signage for retail industry using Semantic UI.

#### **PUBLICATIONS**

**Evaluation of Water Body Extraction from Satellite Images Using Open-Source Tools**. *Feb - 2019*

* evaluates water body extraction from satellite images of Chennai city using machine learning methods
* compares the classification results of different machine learning algorithms such as J48 decision tree, naive Bayes, multilayer perceptron, k-nearest neighbor, iso-cluster and random forest.
* Published in International Journal, Springer <https://doi.org/10.1007/978-981-13-6095-4_10>

**PROJECTS**

* **Water body shrinkage evaluation** (ArcGIS, MATLAB, WEKA)

Estimated the amount of shrinkage that occurred in lake Puzhal located in

Chennai over a span of few years.

Classification of the satellite images done using ArcGIS

Feature set from the satellite images and accuracy assessment using R

* **Hotel management system** (PHP, MySQL, HTML)

Built a complete end to end solution with functionalities of lodging, check out

and billing for availed services.

Used Apache as web server for the application

* **Portal for weather information** (HTML, Node.js)

Created a web page using HTML and through search bar user can type the place name and gets to know the weather with the help of backend node js integrated with a weather api.

* **Book Estate** (Django, Semantic UI)

Built a solution for the user to engage with the books and also with the author.

Use cases like lending and returning a book, querying have been developed.

* **Chat App** (Node.js)

Build a chat room for the users to join and a have a common messaging platform, familiar to having a Whatsapp group.

**EXTRA-CURRICULAR AND POSITION OF RESPONSIBILITY**

* Member of CSE Department football team and College team as well.
* Core Committee member of ANOKHA - 2K17 & 2K18 (Annual tech fest in University)
* Worked as Co Head and Head of Fun & Entertainment department of University’s National Level fest ANOKHA 2k17 and 2k18.
* Ardent participant of University’s Cultural fest GOKULASHTAMI 2k16 & 2k17.