

Enthusiastic and dedicated Software professional with 3 years of experience in a product-based startup company. Able to effectively self-manage during independent projects and skilled at teamwork in a fast-paced Agile environment.

## WORK EXPERIENCE

### Software Engineer Vassar Labs IT Solutions

06/2018 - Present

Hyderabad

#### Roles and Responsibilities

- Building end to end integration of REST API using spring and play framework in java.
- Responsible for production bug fixes due to my rapid debugging skills.
- Schema designs based on the user requirements and documentation.
- Optimized the computation logic to avoid the memory issues.
- Implemented multi-threading to improve the application functionalities.
- Enhanced Business computations using Apache storm and Kafka.
- Mentoring juniors and review of code to design a generic module.

## PROJECTS

### Kaleshwaram Irrigation Project

- Developed a Forecast Module which pipelines hydrological and mathematical models to stimulate and forecast the inflows across the river network. Weather data is interpolated spatially to a uniform grid level and is passed as input to hydrological models to get the surface runoff. The output of hydrological model along with realtime input are used for calibration and flow forecasting.
- Implemented generic computation module to merge data from multiple real-time sources and aggregate data at both temporal and spatial level.

### Water Budgeting

- Developed a Water Budgeting Model, a decision support system that computes surplus/deficit of a location based on the water demand and supply, accounting the different factors involved. Helps in deep understanding of the gains and risks associated with different water management systems. Promotes water conservation and changes in cropping patterns.

### Water Deficit Indent

- Developed a dynamic system which computes the deficits on the daily basis under the farming regions for the entire AP based on the realtime time weather data and cropping master data provided.
- Logical enhancements for different crops under the farm helps the user of the dashboard with in-depth understanding.

### PRRD(Panchayat Raj and Rural Development)

- Responsible for designing the Additional Structure Estimation System for Guntur Region with 1.5 Lakh+ uniformly distributed points based on the excess water availability.
- Creating multiple instances based on the facility to add/move/delete a structure and providing user flexibility to retain the old instance.

## EDUCATION

### B.E.(ECE)

Madras Institute Of Technology(Anna University),Chennai

08/2014 - 03/2018

87.8%

### Intermediate

Vivekananda Higher Secondary School,Namakkal

06/2012 - 03/2014

96.5%

## SKILLS

Java

Mysql

OOPS

Cassandra

Kafka, Storm

Deployment

GitHub

Maven

Rest Api's

Data Structures and Algorithms

Deployment

Mutli-Threading

Framework: Play, Spring

Tools: Postman, STS, FileZilla

Analytics & Problem Solving

## ACHIEVEMENTS

### Instant Reflection of Realtime Entry

Integrated back end with mobile app team and provided instant reflection of data on the dashboard using web-sockets.

### Synchronized Module Locking System

Developed a synchronized locking system for the input services of Hydrological models to prevent the corrupted folder creation on deployments.

## ORGANIZATIONS

### CSMIT (06/2015 - 03/2018)

An organization that involves teaching basics of computer to government school students. Conducting software and hardware classes to the juniors.

### PDA - Volunteer (06/2015 - 03/2018)

An interdisciplinary forum platform to the students who aspire to be different in the society by discovering themselves.

## LANGUAGES

English

Full Professional Proficiency

Tamil

Native or Bilingual Proficiency

## INTERESTS

Backend Development

R & D