Mahesh Vangala

A programming enthusiast with full stack expertise bringing ideas to life, using but not limited to, Angular/Python/Beam/Kafka/(Neo4j, Cassandra)/Docker/Kubernetes/(AWS, GCP).

With 10+ years of hands on experience in academic, research and clinical settings working with genomic and clinical data, I bring broad spectrum of skills ranging from Data Engineering, Data Science and Dev/Ops.

Creative and goal oriented, I take immense pride in end-to-end automation of operational tasks and a big believer of the quote "you don't know it until you teach it to a computer".

Looking forward to the opportunities to prove and enhance my leadership and technical expertise.

Experiences

Data Scientist

UMass Chan Medical School

Worcester, MA

Sr. Computational Biologist

Dana-Farber Cancer Institute

Boston MA

Bioinformatics Research Associate

Vermont Genetics Network, University of Vermont

Burlington, VT

Bioinformatics Software Engineer

Institute for Genome Sciences, Univeristy of MD School of Medicine

Baltimore, MD

Selected Projects

2020 2022 National COVID Cohort Collaborative (N3C)

UMass Chan Medical School

- Led the project from plan to prototype to production in under 2 months.
- Designed and delivered end-to-end automation of weekly data transfers.
- Continuous integration of feature updates using Docker and AWS Fargate stack.
- · Automated email notifications of data quality metrics.

2015 2017 Visualization Pipeline for RNA-seq data (VIPER)

Dana-Farber Cancer Institute

- A comprehensive solution that performs most standard RNA-seq analyses quickly and effectively.
- Published work in peer reviewed journal. https://doi.org/10.1186/s12859-018-2139-9
- Played a vital role in devising and developing module based design pattern.

2010 2012

2008

2010

2005

2007

2001

2004

CloVR: a virtual machine for automated and portable sequence analysis from the desktop using cloud computing

Univeristy of MD School of Medicine

- CloVR supports use of remote cloud computing resources to improve performance for large-scale sequence
- Published work in peer reviewed journal. https://doi.org/10.1186/1471-2105-12-356
- My work into comparative genomics pipeline in CloVR resulted in further funding of the project.

Education

Professional Science Masters in Bioinformatics (Genomics track)

Virginia Commonwealth University

Richmond, VA

M.S in Biophysics

University of Madras

Chennai, India

B.S. in Biotechnology

Osmania University

Hyderabad, India

Contact Info

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Skills

Rust

Python

Java Perl

Bash

Angular

GraphQL

Docker

Kubernetes

Snakemake

Apache Beam

Apache Spark

RabbitMQ

Redis

Apache Kafka

SQL Server/MySQL

Neo4J

Cassandra

Bigquery

Athena

DynamoDB

AWS

GCP