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

Sr. Software Eng. - Data Analytics & Software Development Institute for Protein Innovation

Data Scientist

2017

2022

2014

2017

2012

2014

2012

2020

2022

2015

2017

2010

2012

2008

2010

2005

2007

2001

2004

UMass Chan Medical School

• Worcester, MA

Sr. Computational Biologist

Dana-Farber Cancer Institute

◆ Boston, MA

Bioinformatics Research Associate

Bioinformatics Software Engineer

Institute for Genome Sciences, Univeristy of MD School of Medicine

◆ Baltimore, MD

Selected Projects

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.

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.

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 processing.
- 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)

M.S in Biophysics

University of Madras

◆ Chennai, India

B.S. in Biotechnology

Osmania University

Contact Info

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- **44**3)326-1957

Skills

OBoston, MA

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

Hyderabad, India