

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

2017 present	Data Scientist UMass Chan Medical School	Worcester, MA
2014 2017	Sr. Computational Biologist Dana-Farber Cancer Institute	Boston, MA
2012 2014	Bioinformatics Research Associate Vermont Genetics Network, University of Vermont	Burlington, VT
2010 2012	Bioinformatics Software Engineer Institute for Genome Sciences, University of MD School of Medicine	Baltimore, MD

Selected Projects

2020 2022	National COVID Cohort Collaborative (N3C) UMass Chan Medical School <ul style="list-style-type: none">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 <ul style="list-style-type: none">A comprehensive solution that performs most standard RNA-seq analyses quickly and effectively.Published work in peer reviewed journal. https://doi.org/10.1186/s12859-018-2139-9Played a vital role in devising and developing module based design pattern.
2010 2012	CloVR: a virtual machine for automated and portable sequence analysis from the desktop using cloud computing University of MD School of Medicine <ul style="list-style-type: none">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/10.1186/1471-2105-12-356My work into comparative genomics pipeline in CloVR resulted in further funding of the project.

Education

2008 2010	Professional Science Masters in Bioinformatics (Genomics track) Virginia Commonwealth University	Richmond, VA
2005 2007	M.S in Biophysics University of Madras	Chennai, India
2001 2004	B.S. in Biotechnology Osmania University	Hyderabad, India

Contact Info

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Skills

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