

# Naveen Kannan

RESEARCH ASSOCIATE

Cleveland, Ohio

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Data Scientist experienced with data analysis, visualization, building pipelines, automation and Data Engineering. I have a strong passion for coding, visualization and automation, and I compiled this CV with code. United States Permanent Resident.

## Education

### MS in Biomedical and Health Informatics

CASE WESTERN RESERVE UNIVERSITY

- GPA-3.9

Cleveland, Ohio

JANUARY 2022 – AUGUST 2023

### Bachelor of Medicine and Bachelor of Surgery

MADRAS MEDICAL COLLEGE

- GPA-4.0

Chennai, India

SEPTEMBER 2016 – MARCH 2020

## Experience

### Research Associate

POPULATION HEALTH AND QUANTITATIVE HEALTH SCIENCES, SCHOOL OF MEDICINE, CASE WESTERN RESERVE UNIVERSITY

Cleveland, Ohio

May 2023 - Present

- Docker/Singularity Containerization and Documentation.
  - Developed **Docker/Singularity containers** for reproducible scientific pipelines, facilitating efficient workflows for colleagues.
  - Authored comprehensive documentation to ensure seamless adoption and easy troubleshooting.
  - Incorporated Mamba into the scientific workflow, reducing container build times by **300 percent**.
- Cluster Configuration and Big Data Analytics
  - Configured and maintained both **VM and Raspberry Pi bare-metal servers**.
  - Implemented big data analytics tools (**Hadoop, Spark**) along with bioinformatics tools like **Hail and Glow** using Ansible scripts.

## Technical Skills

### Programming Languages

PYTHON, R, BASH, SQL

### DevOps Tools

DOCKER, SINGULARITY, SLURM, HIGH-PERFORMANCE COMPUTING, ANSIBLE

### Geospatial Analytics/Visualization

GEOPANDAS, SF (R), QGIS

### Markup Languages

LATEX, MARKDOWN, RMARKDOWN

### Version Control

GIT

### Deep Learning

TENSORFLOW, PYTORCH