

# 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

- Set up, configured and maintained both VM and Raspberry Pi bare-metal servers from scratch.
- Implemented big data analytics tools (Hadoop, Spark) along with bioinformatics tools like Hail and Glow using Ansible scripts.

#### Genomic data Analysis

- Collaborated with the Alzheimer's Disease Sequence Project by annotating and scoring the biological effects of 362 million structural genetic variants associated with Alzheimer's Disease.

## 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