

# MANOJKANNAN S

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GitHub - <https://github.com/kannanmanoj>

Portfolio - <https://kannanmanoj.github.io/Portfolio/index-2.html>

## CAREER OBJECTIVE

A passionate and detail-oriented Bioinformatician with a strong foundation in bioinformatics tools and techniques, and a growing expertise in front-end development. Eager to leverage my skills in DNA sequence analysis, NGS data interpretation, molecular biology applications, and web development. Seeking an entry-level position where I can contribute to groundbreaking research, data analysis, and user-friendly web interfaces, while continuously enhancing my skills and contributing to the success of the organization.

## EXPERIENCE

### 1. Web Development Intern, DIGITAL BHEM [January 2024 – March 2024]

- Developed responsive and user-friendly web applications using HTML, CSS, and JavaScript.
- Implemented basic React components to enhance interactivity and state management in web applications.
- Enhanced website performance and user experience through code optimization and testing.

### 2. Bioinformatics Intern, Bio Berry's Healthcare and Research Centre

August 2022 – August 2022

- Gained hands-on experience with bioinformatics tools and techniques.
- Conducted data analysis on genetic sequences and prepared comprehensive reports.

### 3. Intern, Learn to Upgrade October 2020 – November 2020

- Learned the use of basic bioinformatics tools and software.
- Applied theoretical knowledge to practical bioinformatics problems.

### 4. Data Analytics and Visualization Job Simulation, Accenture North America (Forage)

April 2024

- Completed a simulation focused on advising a hypothetical client as a Data Analyst.
- Cleaned, modeled, and analyzed datasets to uncover content trends and inform strategic decisions.
- Prepared presentations to communicate key insights to stakeholders.

## TECHNICAL SKILLS

- Bioinformatics Tools: BLAST, ClustalW, Schrodinger Docking, Autodock
- Programming Languages: Python, R, HTML, CSS, JavaScript
- DNA Sequence Analysis: Sanger sequencing, NGS data analysis
- Data Management: MySQL, NCBI data submission, and curation
- Version Control: Git, GitHub
- Operating Systems: Linux
- Molecular Biology Applications: Primer design, SNP analysis
- Web Development: Proficient in creating and maintaining responsive web applications

## SOFT SKILLS

- Adaptability
- Problem Solving
- Teamwork
- Time Management
- Communication Skills

## PROJECTS

### 1. Echinodorus Grandiflorus and Molecular Docking Interaction to Identify Potential Inhibitor Against SARS\_COV2

- Utilized molecular docking techniques to analyze potential inhibitors for COVID-19 using Schrodinger Docking.

### 2. Comprehensive Computational Analysis of Non-synonymous SNPs associated with Dementia: A Hub Gene Study

- Conducted computational analysis to study genetic associations with dementia.

### 3. Web Interfaces: Dementia Hub

- Developed user-friendly web interfaces for accessing dementia-related information.

### 4. Web Interfaces: Hypertension-associated SNPs Database (BPSNPs)

- Developed user-friendly web interfaces for accessing hypertension-related information.

## EDUCATIONAL QUALIFICATION

- ✓ M.Sc. Bioinformatics, Bishop Heber College, Tiruchirappalli, Tamil Nadu  
2022 – 2024
  - Graduated with 79%
- ✓ B.Sc. Bioinformatics\*\*, Bishop Heber College, Tiruchirappalli, Tamil Nadu  
2019 – 2022
  - Graduated with 80%
- ✓ Diploma in Bio-Analytical Techniques (DBAT)\*\*, Bishop Heber College,  
Tiruchirappalli, Tamil Nadu 2020
  - Graduated with an A+ Grade
- ✓ HSC, Cheran Higher Secondary School, Karur, Tamil Nadu 2019
  - Graduated with 68.3%
- ✓ SSLC, Cheran Higher Secondary School, Karur, Tamil Nadu 2017
  - Graduated with 92%

## CERTIFICATIONS

- Complete Android Mobile Application Development Java in NPTEL
- Game development using PyGame in GUVI
- Complete Web Development Internship from DIGITAL BHEM
- Complete Front-End Development from Simplilearn

## KNOWLEDGE ACQUISITION

- Attended a two-day conference on Machine Learning and Biological Science at Pondicherry University.
- Participated in the International Conference on Prospects of Bioscience in Trans-disciplinary Research (PBTR) conducted by Bishop Heber College.

## CONCLUSION

As a dedicated Front-End Developer and Bioinformatician, I am eager to apply my expertise and collaborate with dynamic teams to deliver high-quality research, data analysis, and web development projects. With a commitment to continuous learning and a passion for innovation, I am confident in my ability to contribute effectively to the development efforts and drive the success of the organization.