


# JOEL SADANAND SAMSON

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## Education

### George Mason University

Jan 2022 - Present

Master of Science in Computer Science; GPA: 3.89; Expt Graduation: Dec 2023

Fairfax, VA

### NMAMIT Institute of Technology

Aug 2017 - Oct 2021

Bachelor of Engineering in Information Science & Engineering; GPA: 3.68 (9.00/10.0)

Nitte, India

## Experience

### George Mason University

Aug 2022 – Present

Graduate Teaching Assistant | *Data Analysis, Management*

Fairfax, VA

- Reinforced student learning of skills and materials through weekly check-ins, informal assessments, and observations
- Completed all assigned tasks, which included preparing and grading assignments and tests while leading a small group discussions, enabling the teacher to complete 96% of lesson plans on time
- Maintained academic records, and processed quarterly report cards for 80 students, ensuring accuracy and speed
- Structured coursework by managing a website with relevant information, which increased interaction by 25%

### Quality Theorem

Dec 2019 – Jan 2020

Web Developer Intern | *UX/UI Design, HTML, CSS, Javascript, PHP, MySQL*

Bangalore, India

- Collaborated in developing a multi-functional examination website making exam systems 70% faster in the University
- Generated responsive web designs that met company standards/protocols maximizing speed and performance by 30%
- Spearheaded team of 5 interns to address 50 tasks per week
- Modeled the project to accommodate a minimum of 1000 users concurrently

## Projects

### E-Commerce System Interface | *C, SQL, MySQL API*

Apr 2022 - May 2022

- Programmed an E-commerce Interface in C for users to Sell, add Inventory and generate bills with 6% Tax
- Designed a storage system, to add product data using MySql C API for SQL queries and improved efficiency by 25%
- Created a search feature and categorization system that streamlined the product adding and purchase process by 50%

### Grievance System | *React, Node, Javascript, Firebase, HTML, CSS, REST APIs*

Jan 2020 - Aug 2020

- Launched a system to resolve issues of concern by students, staff and admins for the University of 5000 strength
- Incorporated ReactJS to build interactive components and incorporated Redux to manage application state
- Configured and integrated Firebase and REST APIs for storage, authentication, and file I/O making system 50% faster

### Covid Tracker | *React, Node, Javascript, HTML, CSS, REST APIs*

Jan 2020 – Aug 2020

- Built a platform to track COVID across all 7 Continents of the world and 29 states of India showing results in a MAP
- Generated graphs for Data comparisons, Hospital Data, and COVID News using REST APIs
- Developed an efficient and lightweight web application using ReactJS, JavaScript gaining 30% better performance

## Skills Summary

Languages : Java, PHP, C++, JavaScript, C, SQL, Bash, HTML, CSS, TypeScript

Technologies / Frameworks : React, NodeJS, MySQL, Firebase, REST APIs, GIT, AJAX, jQuery, Angular

Developer Tools : GitHub, Visual Studio, Atom, Android Studio

## Relevant Coursework

- |                         |                           |                       |                    |
|-------------------------|---------------------------|-----------------------|--------------------|
| • Analysis of Algorithm | • Artificial Intelligence | • UX/UI Design        | • Data Structures  |
| • System Programming    | • Machine Learning        | • Internet Technology | • Maths Foundation |

## Achievement

### Smart India Hackathon 2020 | *1st Place*

Jan 2020

- Won 1st(first) prize, Smart India Hackathon 2020, National level Hackathon held by Ministry of Human Resource, India
- Programmed and facilitated a student support system using React, NodeJS, Redux and other technologies in 36 hours

### MHRD Scholarship | *Award*

Aug 2017 – May 2021

- Awarded full-tuition merit-based scholarship for academic excellence from the Ministry of Human Resource Development, Government of India
- Achieved scholarship for 4 years consecutively