

Nitesh Ramakrishnan

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EDUCATION

University of Texas at Dallas

Master of Science in Computer Engineering (CGPA – 3.62)

Richardson, TX

May 2021

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering (CGPA – 8.3)

Chennai, India

May 2019

EXPERIENCE

Software Developer Intern, Council of Scientific and Industrial Research (CSIR)

Jan 2019 – May 2019

- Developed a CV framework to detect objects in visual images using **Convolutional Neural Networks (CNN)**.
- Implemented a custom 13 layer neural net to train the augmented image dataset using **TensorFlow**.
- My model achieved **92%** detection accuracy over the existing models (84%) on the same dataset.
- Added **dropout** layers to overcome the **overfitting** problem and it boosted the accuracy result by 6%.

CS Outreach Instructor, University of Texas at Dallas

Dec 2019 – May 2021

- Volunteered at local schools to enlighten school students with fun programming sessions and activities.
- Organized interactive programs including coding camps for school students during **Engineering Week** at UTD.
- Tutored more than **500+** hours of coding sessions during the summer camps and up to **80** students in a batch.
- Mentoring students at Enrich Kids Mind in implementing **Java/JavaScript** projects and provide valuable feedback.

SKILLS

Languages : JAVA, JavaScript, Python, C++, SQL

Web Technologies: HTML5, CSS3, Bootstrap, REST APIs, ExpressJS, ReactJS, NodeJS, Spring Boot, WordPress

Databases : Mongo DB, PostgreSQL, MySQL

Tools/IDE : NPM, Github, Postman, Eclipse, IntelliJ IDEA, Visual Studio Code

ACADEMIC PROJECTS

Enrich Kids Mind WordPress Website

Feb 2021 – May 2021

- Responsibilities include installation, configuration and designing the website from scratch.
- Optimized the contents with the latest **SEO** practices for higher ranking in **Google Search Console**.
- Designed custom templates, layouts, transitions, and themes using **Elementor**. Currently updating the website as per the requirement with new features and contents.

Expense Management Application

Nov 2020 – Dec 2020

- Developed a backend service for tracking monthly expenses of multiple users using **Spring Boot**.
- Created **DAO CRUD** methods to keep track of the user's transaction and implemented basic business logic.
- Setup endpoints Tested **REST API's** in the controller layer for **JSON** data using **Postman**.

Exercise Tracker Application

May 2020 – June 2020

- Developed a Full-stack web application using **MERN stack** for tracking users and their exercises.
- Created end-to-end implementations using **NodeJS** and **Mongo DB** in the backend.
- Designed the frontend using **ReactJS** and Bootstrap to render the HTML components in real-time.

Soccer Application

May 2020 – June 2020

- Setup routes for Get and Post requests and to send responses as a **JSON** object using **ExpressJS**.
- Created a simple form to input player details and performance using ReactJS which is stored in Mongo DB.
- The website was developed as a self-learning project to exhibit my knowledge in Full-stack.

Data Replication in Distributed Computing

Mar 2020 – May 2020

- Implemented multiple client-server communication for data replication in a distributed system.
- Designed a secure hashing protocol to perform concurrent read/write using **multi-threading** (Java).
- For **linearizability** and consistent write, I implemented a quorum-based voting protocol with a **FIFO** priority channel.

Library Management System

Oct 2019 – Dec 2019

- Developed a Database Management System to efficiently handle a library's operations.
- Designed an efficient database schema and pushed all the records to the database (**PostgreSQL**).
- Integrated a GUI using **Tkinter** (python) for a simple user interface.