

# Abhishek Saxena

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## EDUCATION

### SRM Institute of Science and Technology

B.Tech Computer Science (GPA:9.16)

- Specialization in big data analytics.

Tamil Nadu, IN

Graduation Date: Jun 2023

## WORK EXPERIENCE

### Nimble Box

Research and Development Intern

Remote

Jul 2022 - Present

- Developed a High-performance Logging and Monitoring application (Monitoring) for python with MongoDB and Protocol Buffers that can serve 122 RPS and show data on a live dashboard with Nimblebox's SDK.
- Reduced setup and deployment time for Monitoring by 17% by setting up a multi-container configuration with docker-compose resulting in a single command setup and purging to only the bare essentials to reduce build times.

### Frappe

Software Development Intern

Remote

Jul 2021 - Apr 2022

- Designed and implemented a query builder inside the frappe framework using Pypika to improve the developer experience
- Improve Multi-DB support by re-writing about 140 raw SQL queries with the query builder for on-the-fly translation.
- Build a robust migration system by using hashes to compare schema files resulting in a 13.09% faster, efficient, and conflict-free migration process
- Upgraded the query sanitization process using parameterized queries by default to sanitize queries with no extra developer effort.
- Fabricated an App dependency management system into Bench(Frappe's CLI) to pin app versions and resolve conflicts.
- Increased test coverage for the query builder module to 67% by writing extensive tests.
- Delivered The presentation 'Data Talk: Pythonic Query Building' at the 'ERPNext conference 2021.'

## PROJECTS

### GitHubSRM

Python, Django, NextJS

Remote

Aug 2021 - Sep 2021

- Built three NextJS apps that work as the Main website, Maintainer, and Admin Portals.
- Designed the backend infrastructure with 15+ routes that served the website by performing various tasks, including Permissions, Error resolution, AWS integrations to trigger lambdas and email templates, etc.

### ProGAN

Python, PyTorch

Remote

Feb 2021 - May 2021

- Re-implemented Nvidia's paper on 'Progressive Growing of GANs for Improved Quality and Stability from scratch.
- Created an easy-to-use, customizable class to train ProGAN on any dataset, which makes ProGAN accessible to any beginner.
- Trained on AWS's Sagemaker with fashion dataset and CIFAR-10 on google colab.

### Nobook.learn

Python, JavaScript, ReactJS, PyTorch

Remote

May 2021

- Designed an educational web app using React and FastAPI with hugging face ML models to help students learn in a dynamic environment.
- Using four machine learning models, we scan textbook content and generate an interactive quiz for a student. Continuously changing its difficulty level to adapt to the student's level of knowledge on the subject.

### Palette-Net

Python, PyTorch, Jupyter

Remote

Jan 2021

- Re-implemented a deep learning model that can re-color any Image to the users' choice of color palette.
- Created our custom image dataset of 20,000 images by web scraping and pre-processing pictures from the internet.
- Engineered pipelines to preprocess raw images, store them and train a two-part model.

## AWARDS

### IIT Bombay's EdTech Hackathon

Runner Up

Remote

Apr 2021

- Ideated and implemented an MVP for "Nobook.learn", which bagged us a prize of 40K.

### HACKCBS 3.0

Runner Up

Remote

Oct 2020

- MLH-powered hackathon where we built a solution to combat covid-spread in workspaces which earned us a prize of 15k

### Hack this Fall 2.0

Winner

Remote

Sep 2020

- Bagged the First prize in a competition of 80 teams by building 'Shikshak,' a product to make academics affordable.

## SKILLS & INTERESTS

**Skills:** Python, JavaScript, Django, FastAPI, TensorFlow, PyTorch, ReactJS, TailwindCSS, Redis, MongoDB, AWS

**Interests:** Computer Vision, Photography, Graphic Design, Video Editing