

# Aditya Kumar

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## EDUCATION

### Indian Institute of Technology, Delhi

*Bachelor of Technology in Production and Industrial Engineering, Minor in Entrepreneurship*

New Delhi, IN

July 2019 – Sep 2023

### PMS Public School

*Class XII*

Moradabad, IN

April 2018 – April 2019

## EXPERIENCE

### Web Executive

*BSW, IIT Delhi*

Oct. 2020 – Present

*New Delhi, IN*

- Developed and Maintaining a PHP based Progressive Web App for Boards of Student Welfare, IITD
- Explored technical implementation of the Web App's Backend and UI

### Full Stack Developer

*NlogN*

Dec 2020 – Present

*New Delhi, IN*

- Developing an PWA based Environment for practicing Coding Questions
- Building Web App using React, HTML/SCSS and Native JavaScript

## PROJECTS

### Performance modeling of integrated architectures | *Under Prof.Bernhard Egger (SNU)*

May 2021

- Dumped and Disassembled the OpenCL kernels of Intel Architecture to generate the corresponding Assembly code
- Profiled the performance using hand-made OpenCL microkernels with different properties and studied OpenCL execution model, integrated architectures and their memory architecture.

### Consequences of Openness | *Under Prof.Ronan Llyons | Trinity College Dublin*

March 2021

- Analyzed various types of papers related to Trade, Vessels, Grains, Custom, and Excise.
- Adapted and Improved algorithm of various tools like Layout-Parser, Tabula and Tesseract OCR.
- Digitised the data of ancient document (1700s-1900s) with 99+% accuracy.

### Portfolio Web App | *JavaScript, Node.js, React, HTML/CSS, GraphQL*

Nov.2020

- Developed a full-stack web application using Node.js serving a MailChimp API with React as the frontend
- Implemented Newsletter using MailChimp API for subscription.
- Using GraphQL Queries to fetch data

### Meditation App | *Flutter, Java, TensorFlow, Google Colab*

Aug. 2020

- Developed an All-in-One Meditation app using Flutter Framework during Smart India Hackathon 2020
- Implemented Pose Estimation Algorithm for Yoga Poses using TensorFlow
- Integrated Tensorflow and Flutter to predict Yoga Pose with 90+% accuracy

## PUBLICATIONS

### DS IN JS | *Data Structure and Algorithms in JavaScript*

Nov.2020

- Wrote and Published an E-Book on Data Structure and Algorithms in JavaScript
- Sold Multiple Copies Worldwide using Amazon/Kindle

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, C++, Kotlin, HTML/CSS, PHP

**Frameworks:** React, Node.js, Flutter, Sass, Bootstrap, Tailwind CSS, WordPress

**Developer Tools:** Git, Firebase, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib