

# Julius Dsouza

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## EDUCATION

### New York University

*Master of Science, Computer Engineering*

New York, NY, USA

*January 2021 – Present*

### Manipal Institute of Technology

*Bachelor of Technology, Computer Science with Minor in Intelligent Systems*

Karnataka, India

*August 2014 – May 2018*

## EXPERIENCE

### Software Engineer Intern

June 2022 – August 2022

*National Basketball Association (NBA)*

*New York, USA*

- Collaborated with the Direct-to-Consumer team to develop dynamic web pages for the NBA streaming application using React and TypeScript.
- Streamlined the bug reporting process by developing a bug reporter and tracker using Next.js, React, and Typescript for the NBA streaming application, and this led to a 40% increase in team productivity.

### Analyst

July 2018 – August 2020

*KPMG India*

*Bengaluru, India*

- Developed a dynamic website using the MERN stack to extract details from purchase and sales receipts by using an Object Detection Model and achieved a 38% decrease in duplicate and incorrect entries.
- Coordinated with Data Analytics Team to build and maintain API endpoints using Django REST framework, enabling clients to increase reporting speed by 27%.

### Software Development Intern

January 2018 – June 2018

*Honeywell Technology Solutions*

*Bengaluru, India*

- Created a landing page for the Digital Technology Team using React, JavaScript, and Material UI and this increased user clicks by 55%.
- Developed a web application for the Engineering team to keep track of vendor purchases using React for the front-end and Flask and MongoDB for the back-end and this helped reduce overhead costs by 19%.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, JavaScript, TypeScript, SQL

**Web Development Stack:** React, NodeJS, Next.js, Django, Flask, Express, HTML, CSS, MaterialUI

**Machine Learning Libraries:** Scikit-Learn, TensorFlow, Keras, Pytorch

**Technologies:** Version control, Git, Amazon Web Services(AWS), Azure DevOps, Docker

**Databases:** MongoDB, MySQL

**Operating Systems:** Linux, Windows

## PROJECTS

### Predict that Dish | *TensorFlow, Flask, React, AWS EC2*

- Developed a full stack web application to classify images uploaded by the user as food dishes using React and Flask and trained the Neural Network using the TensorFlow Library.
- Deployed the application to the AWS EC2 instance and configured the reverse proxy server to handle HTTP requests to the server.

### Minesweeper Application | *Java, JavaFX, Swing, GUI, SQLite, JDBC*

- Designed an application using a client/server architecture to load and save an instance of the game and to display the top scores.
- Engineered a multi-threaded connection handler on the server to distribute concurrent clients over a TCP socket and implemented the design using JavaFX and Swing.

### Digit Classification using Real-Time Image Feed | *Python, OpenCV, Keras, TensorFlow*

- Constructed a Digit classifier using a Convolution Neural Network architecture and trained using the MNIST database of handwritten digits to achieve a test accuracy of approximately 95% using real-time input feed.

## COURSEWORK

Machine Learning, Deep Learning, Machine Learning in Cyber Security, Internet Architecture and Protocols, Network Security, Data Structures and Algorithms