

# AMULYA BOYAPATI

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## EDUCATION

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<b>University</b>	University of Illinois at Chicago	<b>Chicago, USA</b>
<b>Course</b>	Masters in Computer Science	<b>Aug'21- Present</b>
<b>University</b>	Vellore Institute of Technology	<b>Vellore, India</b>
<b>Course</b>	Bachelors in Computer Science and Engineering	<b>July'17- May'21</b>
<b>CGPA</b>	8.89	

## EXPERIENCE

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### Nielsen IQ Jan'20 – Present

*Software Developer Intern*

Project on Business Drivers

- The project generates /segregates the total sales into logical facts as promotional, distribution, reg price, seasonality etc. which are influencing the sales.
- Involved in orchestration the business drivers directed acyclic graph.
- Worked on the major components of the projects which involves data injection on the azure data lake systems.
- A part of development team which reads the data output files form the business drivers and produces the necessary output into Snowflake.

### Cyient Ltd May'19 – June'19

*Software Developer Intern*

Project on Road Health Analytics

- Involved in pre-processing of data, and model creation
- The project's main goal was to provide an innovative mechanism for local governments, municipalities, etc. to improve their decision-making capabilities.
- The image processing techniques like object detection and segmentation are used to identify the road conditions. Mask R-CNN was the architecture used.
- Gained exposure to a wide range of models for object detection and testing. Leveled a comparison between the developed working model with the existing models provided me an insight.

### MSR COSMOS Pvt Ltd May'18 – July'18

*Intern*

- Helped me to gain experience in Linux OS and its working.
- Worked on different echo systems of Hadoop like HDFS, Hive and HBase.

## ACADEMIC PROJECTS

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### Twitter data Analysis (NLP, Bert Model - Ongoing) Vellore Institute of Technology, 2020

- Currently working on Kaggle 2020 problem to predict whether a given tweet is about a real disaster or not, using NLP and Bert Model.

### Analytical Agriculture: Flask, HTML, Bootstrap, Machine Learning Vellore Institute of Technology, 2019

- The project helped to identify if the driver was feeling drowsy.
- This project had frames decomposed and used as images for image detection, Viola-Jones was used to determine if the person had his eyes closed.

## **Facial Recognition System (Image processing and Machine Learning) Vellore Institute of Technology, 2018**

- An application for incorporating the farmers into the process of bioprocesses selection and decision-making of the process.
- It helps in determining the weather conditions, to ensure better crop yield, determine the crop with better yield, determine the best fertilizer for the crop (based on DNA FASTA sequence model, Determine the best pair of companion crops.

## **Library Management System using stacks and queues (C++) Vellore Institute of Technology, 2017**

- A project which aims in developing a computerized system to maintain all the daily work of the library.
- It is implemented using data structures like stacks, queues, and linked lists in C++ language.
- The runtime complexity is verified among different data structures.

## **PUBLICATIONS**

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### **Decentralized Social Network and Cryptocurrency Built Using Blockchain Technology**

*Journal of Advanced Research in Dynamical and Control Systems, Volume 12-04 special issue*

**May'20**

<https://www.jardcs.org/abstract.php?id=3406>

The paper has the unique architecture which utilizes the potential of blockchain to build the decentralized social network system that rewards users with cryptocurrency for reducing plagiarized content.

## **SKILLS**

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- **Tools and Technologies:** Adobe XD, Figma, Apache Airflow, Spark, Azure Databricks, Git
- **Languages:** Java, C, Python, R, HTML, CSS, PHP, Bootstrap, MySQL, JavaScript, Scala
- **Operating Systems:** Windows, Linux

## **AWARDS AND ACHIEVEMENTS**

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- 5 star rating in Java in Hacker Rank.
- One of the finalists in Ideathon – Hackathon
- Best UI/UX for ‘Online Survey Portal’ in DEVSOC – Hackathon

## **POSITIONS OF RESPONSIBILITIES**

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### **Code chef-VIT**

**Dec'17 – May'20**

*Student Vice-Chair & Technical Advisor*

- Club representative of one of the best clubs in India.
- Handled data science projects and guided students by taking technical workshops related to Data Science, Machine Learning, and competitive programming.
- Organized VIT's largest hackathon, DEVSOC
- Organized premiere events such as “Cook-off” and “Code-combat” (Coding Competition's).

### **Non-profit organization (Ayudha)**

**Jan'18 – July'19**

*Volunteer*

- Was a devoted member for Project Gyaan and Project Go-green.
- Conducted various empowerment and awareness sessions for government school students

## **CERTIFICATIONS**

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- Virtual Intern experience by *JP Morgan Chase & Co*
- Image and Video Processing by *Duke University* **100.0%**
- Interactivity with JavaScript by *University of Michigan* **97.0%**
- Cloud Computing Applications by *University of Illinois Urbana-Champaign* **98.0%**
- Understanding user needs by *University of Michigan* **93.0%**