

# Utkarsh A. Tiwari

*Data Engineer & Aspiring Full Stack Developer | Newcastle Upon Tyne, UK*

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## **Professional Summary**

A self-taught web developer with MERN Stack experience (MongoDB, Express.js, React, Node.js). Professionally, worked at Reliance Jio Platforms Ltd in India as a Software Development Engineer (Data Engineer). A self-motivated team player with management and leadership abilities. Always eager to learn new technologies in the fields of Data Engineering and Full-Stack Web Development. Currently pursuing a Masters in Computer Science at Newcastle University, UK and contracting at MLH as a Technical Program Associate.

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## **Skills**

- HTML & CSS
  - Javascript
  - React
  - Node.js
  - MongoDB
  - MySQL
  - PostgreSQL
  - Java
  - CSS Frameworks: Tailwind CSS | Bootstrap | Daisy UI | Reactstrap
  - Analytics: Panelbear | Google Analytics
  - Git & Github
  - UX/UI Design: Figma for designing UI for websites
  - Python
  - Data Analysis & Visualisation
  - Data Engineering
  - Microcontrollers - Arduino & RaspberryPi
  - YouTube - TuplesEdu channel on YouTube
  - Microsoft Office - Microsoft Word, Excel, Powerpoint
  - Google Office Suite - Google Docs, Sheets, Slides, Forms
  - Public Speaking & Leadership
  - Volunteering
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## **Work Experience**

### **Major League Hacking (MLH), USA - (Remote)**

*Contractor - Technical Program Associate*

May 2022 – Present

- Led a team of 15 interns, acted as primary technical escalation point.
- Collaborated on Open Source Projects: Solana Bounty Program (using Next.js), Solana Wallet-Based Whitelisting Program (using Rust & Anchor).
- Facilitated agile practices, standups, data tracking and aggregate team reporting.

## **Jio Platforms Limited, Mumbai, India**

*Software Development Engineer*

August 2019 – August 2021

- Was a part of the Jio Analytics COE Data Engineering Team.
  - Learnt and experimented with big data tools like Hadoop, Kafka, NiFi, Spark, and Zoom Data.
  - Formulated a data pipeline for the merchant acquiring portal of Jio Payments Bank.
  - Wrote Scala code to clean data that came from Oracle golden gate, modify columns, send the output to ElasticSearch and then visualise the output on Zoom Data.
  - Initially involved in the User Acceptance Testing and software validation of applications.
  - Later, as the testing Team Lead for JioMeet, managed a team of 30 people.
  - Started an informative technical seminar session called Brown Bag Fridays.
  - Conducted 8 seminars on Machine Learning, Data Science, Web Development.
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## **Education**

### **Masters of Science in Computer Science**

*Newcastle University, UK*

September 2021 - Present

- Relevant subjects taught till May 2022 -
  - CSC8011 - Introduction to Software Development (Java Introduction) - **[Scored 82/100]**
  - CSC8012 - Software Development Techniques and Tools (Java Intermediate) - **[Scored 94/100]**
  - CSC8014 - Software Development Advanced Techniques - **[Scored 100/100]**
  - CSC8016 - Advanced Programming - **[Scored 87/100]**
  - CSC8017 - Database Systems - **[Scored 87/100]**
  - CSC8018 - Web Technologies - **[Scored 93/100]**
  - CSC8021 - Computer Networks - **[Scored 90/100]**
- Predicted to graduate with 2:1 degree

### **Bachelor of Engineering in Electronics and Telecommunication**

*K.J. Somaiya Institute of Engineering & IT (University of Mumbai)*

July 2015 - June 2019

- CGPA: 6.79/10
  - Was the Chief Technical Officer (CTO) and later the Chairperson of IETE, a student body at KJSIEIT, and managed a team of 50 people.
  - Conducted more than 15 seminars and workshops on Data Science, Python, Web Development, etc.
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## **Projects**

### **Abordo**

- Created a web application to showcase itinerary of travel from 2 bus stations to 4 different castles.
- Built the project as a part of MSc Curriculum. The website can be found on - <https://abordo.netlify.app/>
- Developed the project using Node.js, React.js, MongoDB, & Express.js.

### **Glaucoma Detection using Neural Network**

- Created a web application to predict whether a person is a Glaucoma suspect or not with 96% accuracy.

- Trained the model, built a Web-App and implemented Deep Learning architectures such as ResNet and Smaller VGGNet.
- Won a ‘Special Prize’ at a National Level Project Competition, ‘INTECH-2019’ held by IET.
- Published a paper on the same in the ‘International Journal of Interdisciplinary Research and Innovations(IJIRI)’ in the year 2019, ISSN 2348-1226(o); 2348-1218(p).
- Developed the project using Python for Deep Learning, and HTML, CSS, JavaScript for the web app.

### **Pothole GO: Detection of Pothole using Machine Learning**

- Developed a custom deep learning model, using “ssd\_inception\_v2\_coco” from TensorFlow zoo for Project Deep Blue Season 4 Competition held by Mastek, Majesco.
- Detected the dimensions of a single pothole (length, width, and depth) as stated in the problem statement and even identified multiple potholes present in an image with 92.18% accuracy.
- Technologies used: Python, Machine Learning, Android Application, Javascript, Node.js.

### **MTOA**

- Static website for Maharashtra Tour Organisers’ Association.
- Website URL: <https://mtoa.co.in/>
- Hosted the front-end on Netlify, but the domain is routed via Cloudflare for security.
- Created the website using HTML, CSS, Javascript and Bootstrap 4.

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### **Volunteer Work**

- Elected as ***Chief Website Director*** for **Leo Multiple 3231(July 2020 - June 2021)**, ***Director of Events*** for **Leo District 3231 A1(July 2019 - June 2021)**, ***President*** for **Leo Club of Walkeshwar(July 2020 - June 2021)**.
- All organisations are part of **Lions Clubs International**, a Social Service Organisation.
- Brainstormed and conducted charity and fellowship events all over Mumbai, a 3-day Digital Hackathon, and also an International Cultural Exchange Program, with the country of Nepal.
- Total events executed in the span of three years: 45. Total lives benefitted: 9500+.
- Volunteered for beautification and painting of railway stations, an initiative by **Make A Difference (MAD) Foundation (October 2018)**.

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### **Languages known**

- English - Secured 8.0/9.0 in IELTS
- Hindi

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### **Hobbies**

- Reading thriller & crime novels (Big fan of Dan Brown, Agatha Christie and James Patterson novels - Sherlock Holmes is an all-time favourite)
- Trekking