

# Utkarsh A. Tiwari

Frontend Dev, Data Engineer & Aspiring Full Stack Developer | London, UK

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## **Professional Summary**

Self-taught MERN stack web developer and Data Engineer with a proven track record of success at Reliance Jio Platforms, India. Graduated with a distinction in MSc. Computer Science from Newcastle University. Currently working as a Software Engineer at Citigroup, London and serving as an MLH Coach and Technical Program Associate. Adept at tackling complex challenges and delivering innovative solutions through a diverse background and passion for technology.

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## **Skills**

- Front-end: HTML & CSS, JavaScript, TypeScript, React.js, Next.js
  - CSS frameworks: Tailwind CSS, Bootstrap, Daisy UI, Reactstrap, ICG Design System (Internal)
  - Back-end: Node.js, SpringBoot (in progress)
  - Databases: MongoDB, MySQL, PostgreSQL
  - Analytics: Panelbear, Google Analytics
  - Version control and platforms: Git, GitHub, BitBucket, GitLab
  - CI/CD: Jenkins, CircleCI, GitHub Actions
  - Hosting: Netlify, Surge, GitHub, Heroku, Railway, Red Hat OpenShift (Internal)
  - Data Science: Python (Web Scraping, Data Engineering, Analysis and Visualisation)
  - Embedded Systems: Arduino, Raspberry Pi, FRDM-KL25Z, ESP8266, ESP32, NodeMCU ([hackster.io](https://hackster.io))
  - Content Creation: Personal Tech YT channel [@TuplesEdu](#), Tech Streamer on [@Majorleaguehacking](#)
  - Office Suites: MSOffice - Word, Excel, PowerPoint, Google Office Suite - Docs, Sheets, Slides, Forms
  - Soft Skills: Public Speaking and Leadership, and Volunteering
  - Miscellaneous: Agile Project Management Methodology (Jira, Trello), Figma, Canva, Adobe XD
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## **Work Experience**

### **Citigroup, London, UK**

*Software Development Engineer, Officer - I*

September 2022 – Present

- Frontend Web Developer
- Project Techstack - React.js, TypeScript, Java SpringBoot.

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

*Contractor - Coach*

December 2022 – Present

- Facilitating hackathons ([mlh.io](https://mlh.io) and [ghw.mlh.io](https://ghw.mlh.io))
- Building and nurturing vibrant hacker communities.
- Dedicated to helping students develop the skills and knowledge they need to succeed in the tech industry, with a track record of providing guidance and support by conducting workshops and seminars.

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

*Contractor - Technical Program Associate*

October 2022 – November 2022

- Led a cohort of 10 highly motivated individuals in the Founder's Fellowship Program.
- These fellows were eager to build their own startup and were highly engaged in the program.

- Organised and managed workshops, served as a technical escalation point for the team, providing guidance and support when needed.
- Facilitated the implementation of agile practices within the team, helping to increase productivity and effectiveness.

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

*Contractor - Technical Program Associate*

May 2022 – August 2022

- 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 Lang).
- Facilitated agile practices, standups, data tracking and aggregate team reporting.
- Built a website for the team using React.js, DaisyUI, hosted on Netlify: [solana-sharks-mlh.netlify.app](https://solana-sharks-mlh.netlify.app)

## **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 - August 2022

- End of stage decision: PG Award Distinction - **[Scored 79.3%]**

### **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**

### **On-demand Service Provider Platform**

- Created an application for MSc Dissertation project to connect service providers and customers.
- Developed the project using Node.js, React.js, MongoDB, & Express.js.

### **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 in a team of 4 - [abordo.netlify.app](https://abordo.netlify.app)
- Developed the project using React.js, MongoDB, and Express.js (Node.js)

## **Freelance Websites(s)**

- Built a website for an NGO - [leodistrict3231a1.com](http://leodistrict3231a1.com) | Uses Google Analytics
- Built my sister's portfolio website - [akai28.github.io](http://akai28.github.io)
- Designed a portfolio website for a colleague - [shahpreetk.github.io](http://shahpreetk.github.io) | Uses Panelbear Analytics.
- Static website for Maharashtra Tour Organisers' Association - [mtoa.co.in](http://mtoa.co.in) | Uses Google Analytics

## **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.

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## **Volunteer Work**

- Elected as *Website Director* for **Leo District 3231 A1 (July 2021 - Present)**, *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 a part of **Lions Clubs International**, an International Social Service Organisation.
- Brainstormed and conducted charity and fellowship events all over Mumbai, organised a 3-day Digital Hackathon, and also an International Cultural Exchange Program, with the country of Nepal.
- 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 crime-thriller novels (Big fan of Dan Brown, Agatha Christie and James Patterson novels, Sherlock Holmes is an all-time favourite)
- Teaching