

# Utkarsh A. Tiwari

*Full Stack Developer & Data Engineer | London, UK*

Email: [utkarsh.t0298@gmail.com](mailto:utkarsh.t0298@gmail.com) | LinkedIn: <https://www.linkedin.com/in/utkarsh09/>

Github: <https://github.com/utk09> | Website: <https://utk09.github.io/>

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## **Professional Summary**

A dedicated Software Developer at Citigroup UK, acknowledged as an MLH Top 50 in 2023, and simultaneously serving as an MLH Coach and Technical Program Associate. Graduated with distinction in MSc. Computer Science from Newcastle University, possessing solid foundations in JavaScript, Full-stack Web Development, Java, Python, and data engineering. Recognised for addressing intricate challenges and presenting inventive solutions, I bring a diverse skill set cultivated during previous tenure as an SDE at Reliance Jio, India. With a strong passion for technology, I'm dedicated to making a significant impact in this constantly changing field.

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## **Skills**

### **Technical Skills:**

- Front-end: HTML & CSS, JavaScript, TypeScript, React.js, Next.js
- CSS frameworks: ICG Design System (Internal), Tailwind CSS, Bootstrap, Daisy UI, Reactstrap
- Back-end: Node.js, SpringBoot (in progress)
- Databases: MongoDB (NoSQL), 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 Visualization)
- Embedded Systems: Arduino, Raspberry Pi, FRDM-KL25Z, ESP8266, ESP32, NodeMCU (hackster.io)
- Miscellaneous: Agile Project Management Methodology (Jira, Trello), Figma, Canva, Adobe XD, MS Office: Word, Excel, PowerPoint, Google Office: Docs, Sheets, Slides

### **Soft Skills:**

- Public Speaking
- Leadership
- Volunteering

### **Content Creation:**

- Personal Tech YouTube channel [@TuplesEdu](#)
  - Tech Streamer on [@Majorleaguehacking](#) YouTube channel
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## **Work Experience**

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

*Software Engineer, Officer - II*

September 2022 – Present

- Completed MVP of Equities spot price web-app in 3 months, gaining valuable knowledge about markets.
- Tech stack: React.js, TypeScript, Java SpringBoot; led migration from create-react-app (CRA) to Vite for better performance and developer experience.
- Implemented Express.js mock-server for efficient prototyping.
- Contributed to ui-common component library for code consistency.

- Identified and resolved npm vulnerabilities in four applications.
- Developed a python proof-of-concept project using Streamlit to visualise XML, JSON, and Protobuf data of Foreign Exchange (FX) currencies.

## **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*

May 2022 – March 2023

- Led and mentored three cohorts of fellows (May-Aug 2022, Oct-Nov 2022 & Mar 2023), comprising 15 interns, 10 startup founders, and 12 prep fellows respectively.
- Demonstrated leadership by overseeing workshops, acting as a technical escalation point, and providing guidance to the team.
- Contributed to open-source projects, including the Solana Bounty Program.
- Developed a React.js and DaisyUI-based website for the first Pod, hosted on Netlify at [solana-sharks-mlh.netlify.app](https://solana-sharks-mlh.netlify.app).
- Promoted and implemented agile practices, enhancing team productivity and effectiveness.

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

*Software Development Engineer*

August 2019 – August 2021

- Part of the Jio Analytics COE Data Engineering Team.
- Learned 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 Technology (University of Mumbai)*

July 2015 - June 2019

- CGPA: 6.79/10
  - Chief Technical Officer (CTO) and later the Chairperson of IETE, a student body at KJSIEIT, 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 easily connect service providers with customers.
- Developed the project using Express.js and MongoDB for backend & React.js for the frontend.

### **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](https://leodistrict3231a1.com) (Uses Google Analytics)
- Developed a static website for Maharashtra Tour Organisers' Association - [mtoa.co.in](https://mtoa.co.in)

### **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 - Present), **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 Organization.
- 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.

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## Languages known

- English - Secured 8.0/9.0 in IELTS (January 2020)
- Hindi - Native

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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