

UTKARSH SHARMA

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EDUCATION

THE OHIO STATE UNIVERSITY

Master of Science in Computer Engineering (4.0 / 4.0, Top 1% among 200 students)

Columbus, Ohio

May 2025

INDIAN INSTITUTE OF TECHNOLOGY (IIT) KANPUR

Master of Science (3.7 / 4.0, Top 2% among 500 students)

Kanpur, India

June 2022

PROFESSIONAL EXPERIENCE

LARSEN & TOUBRO INFOTECH

Senior Software Engineer

Bangalore, India

July 2022 - July 2023

- Managed a team of 5, designed, developed **Full-Stack** for customer-off boarding by analyzing existing codebase, interviewing senior architects and building feature requirements for databases, **Kubernetes pods**, **RabbitMQ**, cutting DB management costs by **\$100k**.
- Implemented product installation and update journey by shadowing DevOps to understand current capability, reading multiple deployment plans and automating the process using **bash**, decreasing deployment time by **50%**.
- Led the team to adopt **agile methodologies** like daily scrum, sprint, retrospective and a novel mentorship model to improve development efficiency of team, improving developer team velocity by **3 story points** per sprint.
- Spearheaded **regression testing** framework by inspecting current testing strategy, understanding testing requirements and evaluating multiple technologies, carried out **Selenium based regression tests** to reduce on-call incidents by **10%**.

TATA CONSULTANCY SERVICES

DevOps Engineer Intern

Remote

July 2020 - October 2020

- Executed an automated CI/CD pipeline using **Jenkins**, **Docker**, and **Kubernetes**, decreasing deployment time by **10%**, ensuring seamless delivery of software updates to a large-scale production environment serving over **1 million** vital customers.
- Mentored team members by providing hands-on solving **infra and code level bugs**, increasing product quality and reliability by **60%**.
- Engineered a Python deep web-crawler, computed product-centricity scores by publisher's domain with **86%** accurate search results.

PROJECTS (10+) | [GITHUB](#)

INTERACTIVE SORTING VISUALIZER

- Constructed a **Full-Stack React** application for making sorting algorithms visually intuitive and interactive by rendering a react element dynamically changing the UI in real time; elevating user's visual experience of sorting algorithms by **60%**.

ENIGMA MACHINE

- Examined and implemented code for Enigma machine, first built during World War II, by understanding rotor's motion and behavior to incoming signals for encrypting incoming messages; integrated with APIs for **WhatsApp** provided by **Twilio**.

MINESWEEPER GAME

- Created a user interactive, multiplayer "Minesweeper Game"; published a mobile application on **Google Play - Store**, 2020.

"A MINI VERSION OF GIT"

- Built a **Mini Git** including "git init", git add, git commit, git log using encoding & hashing for commits with an accuracy of **98%**.

TECHNICAL SKILLS

Languages: C, C++, Python, MATLAB, HTML, CSS, JavaScript, Typescript, Scala, Node.js, Golang (Go), UI/UX

Technologies: Spring, Spring Boot, Spark, REST, JUnit, AWS, S3, JSON, Nginx

Databases: SQL, MySQL, PostgreSQL, "SQLite", Azure, Snowflake, Elasticsearch, MongoDB, Salesforce

Tools: Git, JIRA, IntelliJ, Maven, Hadoop, Linux

Academic Courses: Operating Systems, Database Management Systems, Data Structures and Algorithms, Computer Architecture, Data Mining, Computer Vision, Artificial Intelligence, Web Technologies, Statistics and Machine Learning, Intro to HPC, Intro to Big Data

MOOCS: "Deep Learning for Coders" (Fast.ai), "Concurrent Programming" by Stanford University (Coursera)

LEADERSHIP & AWARDS

- Achieved **All India Rank 738 among 300,000 students** in Gate examination 2020.
- Attained **2nd Position among 200 students in Mathematics Olympiad**, 2018.
- Delivered over **100 impactful lectures on Java & Data Structures**, preply.com.
- Secured **3rd position in the Musical Band** at Association of Indian Universities.