

# UTKARSH SHARMA, OHIO USA

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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  
Aug 2023 - May 2025

- Project Work: Vehicle Integration, Code Automation; SAE / GE, Buckeye AutoDrive Challenge II

### INDIAN INSTITUTE OF TECHNOLOGY (IIT) KANPUR | Ranked 4th best in India

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

Kanpur, India  
Aug 2020 - June 2022

- Research Work: Surrogate Modeling For Composite Damage Analysis Using Deep Learning

## PROFESSIONAL EXPERIENCE

### LARSEN & TOUBRO INFOTECH *Spectra-An ETL based Product*

Bangalore, India

*Senior Software Engineer* | Java | Spring Boot | React | Docker | Kubernetes

July 2022 – July 2023

- **Designed and developed Full-Stack** for customer-off boarding by analyzing existing codebase, interviewing senior architects and building feature requirements for databases, **Kubernetes pods and RabbitMQ; reducing DB management costs by \$100k.**
- Implemented product installation and update journey by shadowing DevOps to understand current capability, reading multiple pre and post deployment plans and automating the process using bash; **reducing 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

Remote

*DevOps Engineer Intern* | Jenkins | Docker | Kubernetes

July 2020 - Oct 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.**
- Engineered a Python deep web-crawler; computed product-centricity scores by publisher's domain with **86% accurate search results.**

## PERSONAL 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%.**

### COMPILER FOR A PROGRAMMING LANGUAGE

- Engineered a series of tokenizers and compilers by following grammar rules, semantic and syntactic notations; ensuring an abstract & semantic analysis with compiler level **code optimizations resulting 15% faster code compilation.**

### 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/decrypting messages; **integrated with APIs for WhatsApp provided by Twilio.**

### MINESWEEPER GAME

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

### GITLET - A MINI VERSION OF GIT

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

### VEHICLE MOTION ANALYSIS USING DEEP LEARNING

- Fabricated an application to study motion of moving vehicles on road by considering different traffic scenarios, utilizing bounding regions, optic flow and deep learning; achieving a commendable **accuracy of 85% in intricate road conditions.**

## TECHNICAL SKILLS

- **Languages:** C, Python, Matlab, HTML, CSS, JavaScript, Scala, NodeJs
- **Technologies:** Spring, Spring Boot, Spark, REST, JUnit, AWS, JSON, PyTorch, Keras
- **Databases:** SQL, MySQL, PostgreSQL, SQLite, Azure, Snowflake, Elasticsearch, MongoDB, Salesforce
- **Tools:** Git, JIRA, IntelliJ, Maven, Hadoop
- **Academic Courses:** Operating Systems, Database Management Systems, Algorithm Design & Analysis, Computer Architecture, Data Mining, Computer Vision, Artificial Intelligence, Web Technologies, Statistics and Machine Learning, Intro to Neural Networks
- **MOOCS:** "Deep Learning for Coders"(Fast.ai), "Machine Learning" by Stanford University (Coursera), RESTful Api and Micro-services

## 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.