

# Indian Institute of Technology, Madras

NAME: RAVISH KUMAR

ROLL NO: CS23M055

## EDUCATION

PROGRAM	INSTITUTION	%/CGPA	Passing Year
M.Tech, Computer Science Engineering	Indian Institute of Technology, Madras	8.12/10	2025
Bachelors, Computer Science Engineering	Indian Institute of Information Technology Sricity, Chittoor	7.71/10	2021
XII	Radiant International School, Patna	82.2%	2017
X	Radiant International School, Patna	10/10	2015

## SCHOLASTIC ACHIEVEMENTS

- AIR-1517 GATE CSE 2023

## RELEVANT COURSEWORK AND SKILLS

- Data Structures and Algorithm
- DBMS
- Enterprise Application Development
- GPU
- Deep Learning
- PRML
- Technologies:**C++, Python, CUDA, JavaScript, MongoDB, AWS RDS, Docker, HTML, CSS, Nginx, Travis Ci
- Frameworks & Libraries:** Numpy, Pandas, PyTorch, ReactJS, React Native, ExpressJS, NodeJS, Flask
- Practices & Project Management:**Object Oriented Programming, Github

## PROFESSIONAL EXPERIENCE

- Senior Quality Engineer - L&T Infotech** July 2021 - July 2022
- Worked in performance testing domain
  - Hands on experience on LoadRunner and Jmeter

## INTERNSHIPS

- Fidelity Investments** May 2024 - July 2024
- Worked on various model calibration methods like spline calibration, isotonic regression and platts calibration
- NCHIPC - National Critical Information Infrastructure Protection Centre** May 2020 - July 2020
- Worked on ELK stack
  - Hands on experience of Security Onion

## PROJECTS

- Game Simulation using CUDA** Apr 2024 - Apr 2024
- Multiple tanks on an MxN grid with health points
  - Tanks attack enemy tanks algorithmically based on rounds
  - A tank loses 1 health point per hit; the attacking tank's score increases by 1
  - There is a possibility of another tanks in between a tank and its enemy for the current round
  - Tanks with 0 or fewer health points can't participate in further rounds.
  - Battle continues until only one tank remains.
  - Scores are calculated at the end of each round.
  - GPU parallelization with a TxT grid is used for efficient simulation, where T is the number of tanks.
- Legal Assistant** Feb 2020 - Dec 2020
- A legal document retrieval system
  - Made an intuitive UI using ReactJS and REST API using Flask
  - Made the production grade software using Docker-compose, Nginx, uWGSgi
- Cloud Computing Project** Feb 2020 - Apr 2020
- Made a static event planner website using ReactJS, NodeJS
  - Containerized the complete project using docker and built docker images
  - Routed the request through nginx server
  - Used AWS Beanstalk to host the website
  - Used AWS RDS as the database
  - Got hands on various cloud services such as AWS VPC, AWS S3
- News Room** Sept 2019 - Dec 2019
- This is a news website
  - Any user can post their content or news
  - Worked on complete backend development
  - Made REST API using NodeJS

**Digital College**

Sept 2018 - Dec 2018

- This is a web app like google classroom
- Addition to it any college can create a club
- Faculty can conduct various online quizzes
- Worked on user authentication and validation
- Worked on the frontend using HTML, Materialize CSS, Bootstrap, Django REST API

**OTHER HIGHLIGHTS**

- Language Proficiency: English, Hindi
- Completed the course of CEH v10 by EC-Council in 2020
- Leetcode Profile
- Github Profile