

# Nabarun Kar

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## EDUCATION

**Texas A&M University**, College Station, Texas

Aug 2024 – Present

*Master of Science in Computer Science*

**Relevant Coursework:** Deep Reinforcement Learning, Analysis of Algorithms, Artificial Intelligence

**St. Thomas' College of Engineering and Technology**, Kolkata, West Bengal, India

Aug 2019 - Jul 2023

*Bachelor of Technology in Computer Science and Engineering*

GPA: 3.80/4.00

## EXPERIENCE

**Student Researcher at Institute for a Disaster Resilient Texas**, College Station, Texas

Aug 2024 – Present

- Conducting disaster damage assessment by leveraging computer vision and machine-learning techniques such as image classification and segmentation
- Analysis of community driven data-sets datasets(image/video) to measure the degrees of damage on building properties resulting from severe weather threats

**Advanced App Engineering Associate at Accenture**, Kolkata, West Bengal

Sep 2023 – Jul 2024

- Utilized Kubernetes and Docker for container orchestration and management
- Maintained clusters by performing load balancing, basic troubleshooting and upkeep of servers
- Developed Python scripts to automate processes such as starting clusters and implementing changes

**Graduate Engineer Intern at LTIMindtree**, Kolkata, West Bengal

Mar 2023 – May 2023

- Gained hands-on experience in Java Application Development and worked on a wide spectrum of technologies including SQL, JDBC, and Java Springboot.

## ACHIEVEMENTS

**Winner of E.P.I.C IT Challenge S4 hosted by TVSCredit**

Nov 2023

- Won a national hackathon hosted by TVSCredit among 17,901 participants

**Unstop Top 70 E-School Leaders, 2023**

May 2023

- Recognized by Global Hackathon and Learning Platform UnStop as one of the Top 70 Engineering School talents

**Flipkart Grid 4.0 Semi-Finalist**

Jul 2022

- Led my team to Semi-Finals of a national hackathon hosted by Flipkart among 146,000 participants

## TECHNICAL SKILLS

- **Languages:** Python, C++, C, Java, Javascript, Unix, Solidity, HTML, CSS
- **Framework:** React, TailwindCSS, ExpressJS, TOGAF, MVC
- **Tools:** Node.js, JQuery, REST API
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Tools:** Postman, MS Office

## CERTIFICATIONS

- [The Joy of Computing Using Python by NPTEL](#)
- [Build a Face Recognition Application using Python](#)
- [Blockchain Process](#)

## PROJECTS

**Face Recognition and Attendance System**

- Detect and mark a person's attendance along with the time of entry
- Face detection is done using a trained Deep Convolutional Neural Network
- Uses Python scripts and an SVM classifier to match faces with entries in the database

**Blockchain Warranty System using NFTs**

- An app for minting dynamic NFTs that will expire after a specified period of time
- Built on Ethereum blockchain using Solidity smart contracts.
- Developed a decentralized application to interact with the smart contract

**Template Repository Application**

- Built a web application for creating letters from pre-set templates.
- Designed a maker-checker mechanism for approving the letters through various departments
- Devised a mail service through which users get confirmation once an action is completed

## PERSONAL SKILLS

- Public Speaking
- Communication
- Team Work