

# Nabarun Kar

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## EDUCATION

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

Expected: May 2026

*Master of Science in Computer Science*

GPA: 3.66/4.0

**Relevant Coursework:** Deep Learning, Information Storage and Retrieval, Distributed Systems and Cloud Computing, 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

## TECHNICAL SKILLS

- **Languages:** Python, C++, C, Java, Javascript, Unix (Shell), Solidity, HTML, CSS, SQL
- **Framework:** Agile, React, TailwindCSS, ExpressJS, Spring Boot and Microservices, TOGAF, MVC
- **Tools:** CI/CD Principles, Git, Jenkins, TensorFlow, PyTorch, Node.js, JQuery, JDBC, REST API, Docker, Kubernetes, Postman, MS Office
- **Databases:** MySQL, PostgreSQL, MongoDB

## EXPERIENCE

**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 like starting clusters & implementing changes, improving efficiency by 50%
- Developed a vendor warehousing application with the help of Spring Boot and microservices

**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

## CERTIFICATIONS

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

## PROJECTS

**Image Classification for Disaster Management**

Jan 2025

- Trained an ML model using TensorFlow & Keras to achieve 72% accuracy on a large dataset of building images with 15 categories
- Utilized several pre trained models like ResNet, DenseNet, EfficientNet and fine tuned their performances with hyperparameter tuning and custom loss function

**Face Recognition and Attendance System**

Dec 2022

- 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 HOG, ResNet and a linear SVM classifier to match faces with entries in the database

**Blockchain Warranty System using NFTs**

Nov 2022

- 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**

Nov 2022

- Built a web application for creating letters from pre-set templates using NextJS, RESTful APIs and Postgres
- 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