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, 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