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 by utilising TensorFlow and Convolutional Neural Networks

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
- Documented codebase implementing Kubernetes functionality
- 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

TECHNICAL SKILLS

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

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
- Teamwork