

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, SQL, Solidity, HTML, CSS, Unix (Shell)
- **Frameworks & Architectures:** React, Tailwind CSS, Express.js, Spring Boot, Microservices, MVC, TOGAF, Agile
- **Machine Learning & AI:** TensorFlow, PyTorch, Keras, Scikit-learn, NLP & Tokenization, AWS Bedrock
- **Cloud & DevOps Tools:** AWS (S3, Glue, Bedrock), Docker, Kubernetes, Jenkins, Git, CI/CD, Azure, Grafana, Postman
- **Data Tools & Libraries:** Pandas, NumPy, Node.js, JDBC, REST API, jQuery, MS Office
- **Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB

EXPERIENCE

Artificial Intelligence Engineering Intern at Texas Capital Bank, Dallas, Texas

Jun 2025 – Aug 2025

- Built an end-to-end document-based RAG app using AWS Bedrock, reducing manual document lookup time by over 70%
- Designed and deployed secure REST API for 50MB document uploads to AWS S3 with <2s avg processing time
- Built a production-ready backend using Python and FastAPI, supporting concurrent access from 50+ users
- Automated PDF-to-CSV invoice extraction with Camelot, Tabula, PDFPlumber and AWS Glue, reducing human error and improving key banking workflows
- Implemented guardrails for LLM applications to enforce enterprise standards and ensure compliance
- Built a dashboard using Grafana to visualize latency and real-time performance metrics, improving system observability

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%

Graduate Engineer Intern at LTIMindtree, Kolkata, West Bengal

Mar 2023 – May 2023

- Gained hands-on experience in Java Application Development and developed a vendor warehousing application with the help of Spring Boot and microservices

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

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

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, along with 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