

Nabarun Kar

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EDUCATION

- **Texas A&M University** College Station, TX
Aug 2024 – May 2026
Master of Science in Computer Science; GPA: 3.77
- **St. Thomas' College of Engineering and Technology** Kolkata, India
Aug 2019 – Jul 2023
Bachelor of Technology in Computer Science and Engineering; GPA: 3.80

TECHNICAL SKILLS

- **Languages:** Python, C++, C, Java, JavaScript, SQL, Solidity, HTML, CSS, Bash
- **Frameworks:** React, Tailwind CSS, Express.js, Spring Boot, Microservices
- **ML & AI:** MCP, TensorFlow, PyTorch, Keras, Scikit-learn, NLP & Tokenization, AWS Bedrock
- **Cloud, Backend & Data:** AWS (S3, Glue, Bedrock), Docker, Kubernetes, Jenkins, Git, CI/CD, Azure, Pandas, NumPy, Node.js, REST APIs, Postman
- **Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB

EXPERIENCE

- **Texas Capital Bank** Dallas, TX
Jun 2025 – Aug 2025
Artificial Intelligence Engineering Intern
 - **RAG Application:** Built an end-to-end document-based RAG application using AWS Bedrock, reducing manual document lookup time by over 70%.
 - **Secure APIs:** Designed and deployed secure REST APIs for uploading documents up to 50MB to AWS S3 with under 2 seconds average processing time.
 - **Backend Systems:** Developed a production-ready backend using Python and FastAPI, supporting concurrent access from 50+ users.
 - **Document Processing:** Automated PDF-to-CSV invoice extraction using Camelot, Tabula, PDFPlumber, and AWS Glue, improving core banking workflows.
 - **LLM Guardrails:** Implemented guardrails for LLM applications to enforce enterprise standards and ensure regulatory compliance.
 - **Observability:** Built Grafana dashboards to visualize latency and real-time performance metrics.
- **Accenture** Kolkata, India
Sep 2023 – Jul 2024
Application Engineer
 - **Container Orchestration:** Used Kubernetes and Docker for container orchestration and lifecycle management.
 - **Cluster Management:** Performed load balancing, troubleshooting, and routine server upkeep.
 - **Automation:** Automated cluster startup and configuration changes using Python, improving efficiency by 50%.
- **LTIMindtree** Kolkata, India
Mar 2023 – May 2023
Graduate Engineer Intern
 - **Java Development:** Built a vendor warehousing application using Spring Boot and microservices.

ACHIEVEMENTS

- **Winner, E.P.I.C IT Challenge S4 (TVSCredit):** National hackathon winner among 17,901 participants
- **Unstop Top 70 E-School Leaders (2023):** Recognized as one of the top engineering talents nationwide

PROJECTS

- **Image Classification for Disaster Management** Jan 2025
Trained and fine-tuned CNN models (TensorFlow/Keras) achieving 72% accuracy on a 15-class disaster image dataset.
- **Blockchain Warranty System using NFTs** Nov 2022
Built Solidity smart contracts and a decentralized application for minting and managing expiring NFTs.