

NIHAR CHAUDHARI

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EDUCATION

Stony Brook University, New York

Aug 2026 - May 2028

Master of Science in Computer Science

Coursework: System Security, Data Science Fundamentals

Vishwakarma Institute of Technology, Pune, India

Aug 2019 - May 2023

Bachelor of Technology in Electronics and Telecommunication Engineering

GPA : 8.72 / 10.0

Coursework: Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Database Management Systems, Machine Learning, Natural Language Processing, Embedded Systems, Signal Processing

TECHNICAL SKILLS

Languages: Java, Python, C++, C, JavaScript, SQL, HTML, CSS

Databases: PostgreSQL, MongoDB, Redis

Tools and Frameworks: Spring Boot, Spring MVC, REST APIs, Node.js, Express, Docker, Git

Applied AI/ML: RAG, LLM Integration, Embeddings, Vector Search, Model Context Protocol (MCP), OpenCV

WORK EXPERIENCE

Associate Software Developer - TransUnion

Aug 2023 - Jul 2026

- Developed backend services using Java, Spring, JAX-RS, and EJB, integrating REST and SOAP APIs for large-scale customer communication systems.
- Migrated 200K+ customer records from legacy systems through batch-processing pipelines, maintaining data integrity throughout the transition.
- Resolved a critical payment processing defect that caused duplicate customer debits, correcting backend transaction logic and preventing recurrence.

Software Developer Intern - TransUnion

Feb 2023 - Jun 2023

- Developed REST APIs and web modules using Spring Boot, AngularJS, and PostgreSQL, for an internal Information Security career development platform.
- Built features for dynamic role mapping, skill-to-role mapping, and real-time dashboards, enabling employees and managers to track career progression and skill gaps.

PROJECTS

YouTube Video Summarizer [GitHub](#)

- Built a backend system that processes YouTube transcripts asynchronously using Express, BullMQ, and worker services, integrating the Groq LLM for video summarization.
- Implemented Redis caching with MongoDB storage to serve repeated requests faster, avoid reprocessing the same videos, and support polling-based retrieval of background job results.

Expense Tracker MCP [GitHub](#)

- Built an expense tracking backend using Python, FastMCP, and MongoDB, supporting expense management, natural-language interaction through an LLM, and category wise spending summaries

Structural Leakage Detection using Computer Vision [Paper](#)

- Developed a computer vision system to detect leakage in roofs and walls using LBP and GLCM based texture feature extraction.
- Presented and published at the IEEE International Conference on Intelligent Signal Processing and Effective Communication Technologies (INSPECT 2025).

Electroencephalogram Based Emotion Detection [Paper](#)

- Developed a machine learning pipeline to classify EEG signals into emotional states using signal preprocessing, sliding-window segmentation, and feature extraction.
- Presented and published at the International Conference on Artificial Intelligence, Computational Intelligence, and Inclusive Technologies (ICRAIC2IT 2025).

HONORS & AWARDS

- Quarterly Performance Award, TransUnion** – For impactful contributions in backend development. **Mar 2025**
- GCC Champ Award, TransUnion** – For leading an internal tool project that optimized team workflows. **Jul 2024**