

Naveen Rayapudi

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EDUCATION

Concordia University

Master of Applied Computer Science

Montreal, QC

Jan 2024 – Dec 2025

- Relevant Coursework: Programming and problem solving, Distributed System and Design, Machine Learning, Natural Language Processing, Artificial Intelligence.

PROJECTS

Distributed Health Care Management System | Java, SOAP, UDP, Distributed Systems | GitHub 2025

- Designed and implemented a distributed health care system with **three independent servers** (MTL, QUE, SHE) communicating via SOAP-based web services.
- Built thread-safe scheduling logic using nested **ConcurrentHashMap** structures to handle concurrent patient updates.
- Implemented UDP-based inter-server communication to ensure data consistency across regions.

Warzone Command-Line Strategy Game | Java, OOP, Design Patterns, Maven, JUnit | GitHub 2025

- Collaborated in a **team of 6** to develop a Java-based command-line strategy game supporting single-player and tournament modes.
- Designed and implemented **4+ core game components** using object-oriented principles and design patterns including State, Strategy, and Observer.
- Developed and executed **25+ unit tests** using JUnit, achieving over **85% code coverage** and improving build reliability via Maven.

Today I Learned Application | React, JavaScript, Supabase, HTML, CSS | GitHub | Live 2026

- Developed a full-stack web application enabling users to post daily facts and react using a **three-state voting system** (interesting, mind-blowing, false).
- Built and tested backend services using REST-style APIs and version-controlled CI workflows.
- Integrated Supabase for authentication and data persistence, supporting real-time updates and deployed the application using Netlify.

Machine-Generated Text Detection | Python, PyTorch, NLP, Deep Learning | GitHub 2025

- Designed and evaluated **deep learning models** (Uni-LSTM, Bi-LSTM) to distinguish **machine-generated text from human-written text**.
- Preprocessed and trained models on a **610K+ sample dataset**, achieving **70.18% accuracy (Uni-LSTM)** and **70.11% accuracy (Bi-LSTM)** with comparative loss analysis.
- Conducted **model evaluation and error analysis** to assess generalization challenges.

EXPERIENCE

Python Programming Trainee Mar 2022 – Jun 2022

Andhra Pradesh State Skill Development Corporation (APSSDC)

India

- Developed Python-based applications using object-oriented programming principles and modular design.
- Implemented data processing and automation scripts to streamline repetitive operational tasks.
- Applied core data structures and algorithms to improve code efficiency and maintainability.
- Strengthened debugging and problem-solving skills by working on real-world programming assignments.

AWS Cloud Intern Oct 2021 – Dec 2021

All India Council for Technical Education (AICTE)

India

- Deployed and managed cloud-based applications using AWS services including EC2, S3, and Lambda.
- Implemented a sample web application demonstrating scalable and cost-optimized cloud architecture.
- Worked with IAM roles, storage configurations, and compute resources to ensure secure deployments.
- Worked with AWS CloudWatch logs and basic monitoring to observe application behavior and performance.

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, JavaScript

Web Technologies: HTML, CSS, React, Node.js, Bootstrap

Machine Learning & Data: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch

Developer Tools: Git, Docker, AWS, VS Code, IntelliJ IDEA, Eclipse

Certifications: AWS Certified Solutions Architect, AWS Certified Cloud Practitioner, HackerRank SQL, Wipro