

Ishan Phadke

Littleton, MA | ishan_phadke@student.uml.edu |

LinkedIn: www.linkedin.com/in/ishanphadke | GitHub: <https://github.com/ishanphadke11>

Portfolio: <https://ishan-phadke-portfolio.vercel.app/>

Education

University of Massachusetts Lowell, Lowell, MA

December 2026

Bachelor of Science in Computer Science

GPA 3.5

Relevant Coursework: Data Structures, Object Oriented Programming, Assembly Language Programming, Probability and Statistics, Discrete Structures, Machine Learning, Artificial Intelligence

Skills

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

Technologies/Frameworks: React JS, Tailwind CSS, REST APIs, Linux, MySQL, NumPy, Pandas, Scikit-learn, LLMs (Gemini, Ollama)

Tools/IDEs: Git (GitHub, Bitbucket), Microsoft Visual Studio Code, LaTeX

Certifications: Microsoft Office Specialist: Excel 2019 Associate

Projects

Trip Planner (Python, JavaScript, ReactJS):

July 2025

- Developed an itinerary planning application that helps users create, view, and manage personalized travel plans.
- Built the front end with React and the back end with Flask, communicating over RESTful APIs storing travel plans in SQL Lite database.
- Integrated an LLM (Gemini1.5 Flash) to generate personalized travel recommendations based on user interests such as family vacations, adventure sports, road trips etc.
- Integrated Google authentication with Firebase.

Network Analysis (C++):

January 2024

- Created a tool to parse PCAP files and generate detailed reports on IP, TCP, UDP, and application-layer traffic such as HTTP, DNS, and FTP.
- Implemented dynamic plug-and-play parsers as shared libraries leveraging Factory Design Pattern to simplify the process of developing new application layer protocol parsers.
- Added functionality to convert CSV files to Apache Parquet format, allowing users to run SQL queries directly on the captured data for analysis.

Data frame (C++):

December 2023

- Implemented a C++ version of a Pandas Data Frame to model data and perform functions such as group-by, slicing, and filtering.
 - Applied core Object-Oriented design principles such as polymorphism and inheritance.
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Experience

NETSCOUT – Westford, MA

June 2025 – Present

R&D Intern

- Built a tool to detect non-UTF8 characters in the application layer of PCAP files.
- Created a multi-threaded TCP client simulator to send custom protocol messages for performance testing.
- Parsed PCAP files to extract and repackage packets into protocol-compliant messages based on internal specs.
- Tuned message generation with configurable transmission rates, achieving up to 700K packets/sec throughput.

University of Massachusetts – Lowell, Lowell, MA

January 2024 – December 2024

Computing 1 Grader

- Responsible for grading homework assignments and quizzes for the Computer Science freshmen class of around 50 students.
 - Provided constructive feedback to improve student's understanding of key concepts.
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Interests

Martial Arts, Soccer, Basketball, Football, Cricket, Formula One, Travelling, Gaming