Ishan Phadke

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

Education

University of Massachusetts Lowell, Lowell, MA *May 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

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Skills

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

***Technologies/Frameworks**: React JS, Tailwind CSS,* REST APIs, Linux, MySQL, Apache Parquet,

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

***Certifications**:* Microsoft Office Specialist: Excel 2019 Associate

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Projects

Trip Planner (Python, JavaScript, ReactJS): *July 2025*

- Built a full-stack trip planner using React and Flask with RESTful APIs for creating, viewing, and deleting itineraries.
- Used Gemini API to generate personal travel plans based on user preferences like destination, dates, and interests.
- Secured user authentication with Firebase and stored trip data in an SQLite database.

Network Analysis (C++): *January 2024*

- Built a network analysis tool to parse PCAP files and generate detailed reports for IP, TCP, and UDP traffic.
- Designed dynamic app-layer parsers (HTTP, DNS, FTP) as plug-and-play shared libraries, integrated via a mapping file.
- Used object-oriented design and the Factory Pattern for scalable, modular parser integration.
- Enabled easy extensibility, new protocol support requires only writing a parser and updating the mapping file.

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.

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 PPC messages for performance testing.
- Parsed PCAP files to extract and repackage packets into PPC messages based on internal specs.
- Tuned message generation pipeline with configurable sending rates, achieving up to 700,000 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.

Interests

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