

# Yash Sumeet Lad

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## EDUCATION

### Northeastern University

Master of Science in Computer Science

**Relevant Coursework:** Programming Design Paradigms, Database Management Systems

Boston, Massachusetts, United States

May 2027

### MIT-World Peace University

Bachelor of Technology in Computer Science Engineering [CGPA: 9.1 / 10]

**Relevant Coursework:** Big Data Technologies, DBMS, Machine Learning, Programming with Python, Finance and Costing

Pune, Maharashtra, India

July 2024

## SKILLS

- **Technical Skills:** C++, Java Python, R, ReactJS, Redux, Power BI, TensorFlow, PyTorch, Scikit-Learn, MongoDB
- **Financial Skills:** Business Intelligence, Business Acumen, Mathematics, Analytical Thinking, Financial Planning
- **Soft Skills:** Effective Communication, Time Management, Problem Solving, Management

## INTERNSHIPS

### Freecharge – AXIS Bank

2023

I worked as a React-Redux Frontend-Intern and worked on OPTICS project, which utilized my JavaScript, React JS and Redux skills. I implemented various small tasks. I secured an internship at Freecharge, a fintech company that has merged with Axis Bank. I explored the use of Bayesian inferences to assess creditworthiness and to develop fraud detection models. As a front-end intern, I worked on several agile sprints and client-side applications regarding loan proposals and transactions of NTB and ETB customers. ReactJS, typescript, Redux, and Redux toolkit aided me during my internship. I learned a lot about project planning using DevOps tools like JIRA and Jenkins to smooth out the development process, testing, and minimizing blocker occurrence.

## PROJECTS

### Poker Game Engine - C++, OOP, MVC Design

2025

Built a CLI-based Texas Hold'em Poker game simulating real gameplay with betting rounds, hand evaluation, and multithreaded bot logic. Implemented bluffing strategies, difficulty levels, and a Monte Carlo-based win probability estimator.

*Key Skills:* – C++, STL, Multithreading, Game AI, MVC Pattern, Unit Testing, LLVM

### Visa Payment Network Manager

2025

Designed and developed a production-grade GUI application simulating a Visa-like card payment ecosystem. Simulated over 500+ transactions across multi-user profiles with secure logging and validation flows. Integrated JFreeChart to visualize real-time transaction trends, approval rates, and volume over time. Implemented MySQL-backed transaction storage with support for data analytics and error tracing. Enabled role-based user management (Admin, Merchant, Customer) with session tracking and UI access controls

*Key Skills:* – Java, MySQL, Swing, JDBC

### Calendar Application – Java, MVC+MVVM Design Pattern

2025

Created a full-featured desktop calendar manager capable of handling complex scheduling workflows. Managed 1000+ event entries across multiple calendars with support for recurring events and time zone shifting. Engineered architecture using MVC and MVVM patterns to decouple data, logic, and GUI layers for scalability. Developed CSV import/export features enabling seamless data migration and bulk updates. Added conflict detection logic to flag overlapping events, improving scheduling reliability by over 90%. Optimized for user experience with time zone-aware date pickers and intuitive Swing-based UI

*Key Skills:* – Java-11, JUnit 4, PIT testing

## COCURRICULAR ACTIVITIES

### HackMIT-WPU'23 – Annual Hackathon of MIT-WPU

Core Team Member

Jan' 23 – Apr' 23

- Organized and managed HackMIT-WPU'23, with a core team of 18 individuals and an extended team of 50+ volunteers with a participation of 3000+ members.
- Designated as Jury Coordinator, handled the communication with juries across diverse fields for the purpose of evaluation of teams.

### Innovation Hub, Innovation Council of MIT-WPU

Technical Team Member

2021 – 2024