

# NEHAL MARSHAL LOPES

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## ACADEMIC BACKGROUND

### Master's in Computer Science | DePaul University

Chicago, IL | 3.87 GPA | Expected November 2024

### Bachelor of Engineering in Information Technology | University of Mumbai

Mumbai, India | 3.21 GPA | August 2017 - June 2021

## PROFESSIONAL EXPERIENCE

### Senior Course Online Technician | DePaul University

Chicago, IL | March 2024 - Present

- Led the upgrade of the online classroom monitoring website, enhancing performance by 60% and improving reliability and user experience, using web development skills and project management techniques.

### Course Online Technician | DePaul University

Chicago, IL | March 2023 - March 2024

- Resolved over 100 technical queries for professors, ensuring prompt and efficient issue resolution, by leveraging the ServiceNow ticketing tool and advanced problem solving skills.
- Executed comprehensive diagnostics and troubleshooting on Windows and Mac OS platforms, successfully resolving diverse technical challenges and ensuring seamless online course operations, by leveraging in-depth knowledge of system architecture, diagnostic tools, network troubleshooting, and software deployment strategies, demonstrating proficiency in system diagnostics and deployment.

### Associate Software Engineer | Accenture Solutions Private Limited

Mumbai, India | July 2021 - November 2022

- Developed a responsive web application, enhancing user experience and accessibility, by utilizing JavaScript, MongoDB, Express, Node.js, and React, and following the MVC architectural pattern.
- Integrated and deployed a client web application, ensuring seamless data exchange and operational efficiency, by leveraging RESTful API services and deployment best practices.
- Engaged in Agile practices, particularly SCRUM, ensuring timely project milestones and improved team collaboration, by participating in daily stand-ups and sprint planning meetings.
- Optimized application performance, reducing server response times by 40%, through meticulous code reviews, refactoring, and performance tuning.

### Web Developer Intern | Social Tangle

Mumbai, India | December 2019 - July 2020

- Collaborated with senior developers to design and implement dynamic web applications, enhancing user experience and functionality, through the use of HTML5, CSS3, and Bootstrap.
- Assisted in backend development, contributing to the creation of dynamic web pages and seamless database interactions, by utilizing PHP and understanding of database management.
- Implemented responsive design techniques, resulting in a 25% increase in mobile user engagement and improved cross-device compatibility, by leveraging CSS media queries and Bootstrap's grid system.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, Java, Swift, Golang, Python, HTML, CSS, PHP, R

**Database Systems:** SQL (MySQL), NoSQL (MongoDB), PostgreSQL

**APIs and Frameworks:** React.js, Node.js, RESTful APIs

**Tools and Platforms:** Xcode, Visual Studio Code, Android Studio, Axure RP, Figma, Docker, Kubernetes, Oracle SQL developer, Jupyter Notebook, Eclipse, ServiceNow Slack, Jira, GIT, GitHub, Microsoft Office Suite (Excel, PowerPoint, Word)

**Interpersonal Skills :** Teamwork, Team Leadership, Critical Thinking, Adaptability, Problem Solving, Time Management

## PROJECTS

### Comprehensive Travel Management iOS Application | Xcode, SwiftUI, Pexels API, MapKit, Combine

- Built a user-centric travel planning app, achieving a 40% increase in user engagement, by utilizing SwiftUI for a responsive and intuitive interface, and integrating MapKit for real-time navigation and interactive maps.
- Enhanced user experience, by providing detailed destinations and itinerary management, using the Pexels API and Combine framework to handle dynamic travel data effectively.

### Expense Tracker Application | Android Studio, Java, XML, Google Firebase

- Constructed an intuitive and responsive expense tracker application for the Android platform, achieving 90% crash-free sessions and ensuring 99.9% data availability and reliability, by utilizing Firebase for real-time data synchronization and Firebase Authentication for enhanced user security and simplified login applying skills in Firebase, Android development, and rigorous testing and debugging.

### Smart Gate Pass Security Management System Using Random Key Generation | Android, IOT, HTML, CSS, PHP, MySQL

- Developed a security system integrating Android, IoT, and web technologies to track visitor entry and exit, achieving a 70% increase in tracking efficiency and automating 90% of the system with a random key generation algorithm, by creating a responsive web interface with HTML, CSS, and PHP, and an Android application using Java and XML, while utilizing MySQL for efficient data storage and retrieval, demonstrating skills in Android development, IoT integration, web technologies, and database management.
- Published research in the International Journal of Innovative Research in Computer Science & Technology. [Read the paper.](#)