

HINAL PRABODH PATEL

8578679669 | patel.hina@northeastern.edu | <https://www.linkedin.com/in/patelhinal21/>, Boston, MA

EDUCATION

NORTHEASTERN UNIVERSITY

Boston, MA

Master of Science in Information Systems

MUMBAI UNIVERSITY

Mumbai, India

Bachelor of Engineering in Information Technology

PROFESSIONAL EXPERIENCE

INFOSYS LIMITED

Hyderabad, India

Senior Software Engineer

Oct 2021 - Jun 2022

- Developed a comprehensive automation strategy that encompassed all manual processes in the case management system; utilized data analytics to identify high-value automation opportunities and saved 20+ hours per week
- Devised and integrated external APIs with Appian to enable Coordinated data transfer, while leveraging HTML templates to enable email functionality
- Implemented 80 intuitive interfaces that dynamically presented drop-down menus based on user selection, allowing for efficient and accurate case creation
- Conducted thorough analysis of Oracle database and executed optimization strategy with focus on query tuning, index optimization and data caching; achieved 50% reduction in load times and improved data retrieval on Appian site

Software Engineer

Feb 2020 - Oct 2021

- Partnered with a leading financial institution to identify and design a comprehensive Document Management System in Appian; delivering a scalable solution that increased team efficiency by 25% and reduced document retrieval time by 40%
- Engineered and applied a sophisticated business automation flow optimized end-to-end document management process, encompassing document processing, and archiving into an external database decreased document processing time by 60%
- Spearheaded implementation of database management techniques to store and maintain document information, resulting in a remarkable 80% enhancement in system efficiency, boosting productivity and accelerating workflows

Microsoft Full Stack Developer Trainee

Oct 2019 - Feb 2020

- Designed and tested a fully functional web application using Angular, Visual Studio, Postman, MySQL, .NET, and C# technologies; reduced user bounce rate by 25% and surged conversion rate by 30%
- Architected and coded the back-end for a shopping cart capstone project that met all project specs and exceeded professor's expectations; reduce API response time by 70% and improve scalability

TECHNICAL SKILLS

Languages: Java, XML, HTML, CSS, SQL, .NET, C#, SCSS, JavaScript

Frameworks & Libraries: React.js, MVC, Express.js, Node.js

Functional skills: BPM Application Development, APIs, Unit Testing, Requirement Analysis, SDLC, Object Oriented Design, Agile Methodology

Database: Microsoft SQL Server, Oracle 19c, MongoDB

Tools & Technology: Git, Eclipse, Visual Studio Code, Appian, Jira, Power BI

Certifications: Appian Application Designer Credential (L1 Credential), Appian Application Analyst Credential (L2 Credential), Oracle Certified Professional Java SE 6 Programmer

ACADEMIC PROJECTS

TRAVELING SALESMAN PROBLEM

Mar 2023 - Apr 2023

- Implemented the Christofis's Algorithm, a popular heuristic approach, to obtain a near-optimal solution for the Travelling Salesman Problem (TSP) using the London crime data set, which consisted of 584 cities
- Applied tactical and strategic optimizations, including 2-opt and 3-opt techniques, simulated annealing, and ant colony optimization, to further improve the obtained tour
- These optimizations resulted in a significant improvement, reducing the tour length by approximately 33.87% compared to the original tour

INSTAGRAM ANALYSIS

Feb 2023 - Apr 2023

- Designed and analyzed database system to maintain and manage data for Instagram influencers, posts, users, reels, and stories
- Authored data tracking mechanisms to monitor comments on new posts, track the number of likes on posts, stories, and reels, determine the number of followers of an influencer page, and calculate the follower growth rate and engagement rate
- Employed stored procedures, table level check constraints, triggers, and functions to enforce data integrity and ensure consistent and reliable operations within the database systems
- Assessed and presented collected Instagram data by developing visually appealing dashboards with Power BI, reducing the time required to analyze and present the data by 40%

NEST HUB, WEBSITE FOR ROOMMATE FINDER

Nov 2022 - Dec 2022

- Orchestrated a cross-functional team to create a groundbreaking roommate matching website using multimedia technology; leveraged user data to build business logic that enhanced roommate-matching accuracy by 40%
- Spearheaded the development of a responsive website by leveraging advanced HTML and SCSS skills and deploying React.js, Node.js, Express, and MongoDB for the back end that elevated engagement by 25%
- Integrated all website components, ensuring a smooth and cohesive user experience, while testing for bugs and errors to deliver a polished product that exceeded customer expectations