

# Ripal Patel

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## Professional Summary

Detail-oriented Software Developer / Full-Stack Engineer with hands-on academic and project-based experience designing, developing, testing, and deploying scalable web applications across the full software development lifecycle. Backed by 5+ years of professional experience in Graphic Design and UI/UX, bringing a strong user-centered mindset to front-end and full-stack development. Strong foundation in JavaScript, Node.js, C#, SQL, and modern web technologies (HTML, CSS, React), with academic exposure to Java, Spring, and Spring Boot. Experienced in applying secure coding practices, usability principles, unit testing (Jasmine), and cloud fundamentals (AWS, Docker). Proven problem-solver with excellent communication skills and experience working in Agile team environments.

## Technical Skills

**Programming & Frameworks:** JavaScript (ES6+), TypeScript, Node.js, Express.js, PHP, C#, ASP.NET MVC, Spring & Spring Boot

**Frontend & UI Development:** HTML5, CSS3, JavaScript, React, Bootstrap, jQuery, Angular

**UI/UX & Graphic Design:** User-Centered Design, Wireframing & Prototyping, Visual Design Systems, Responsive Design, Accessibility (WCAG 2.1), Usability Testing, Design-to-Code Handoff

**Databases & Data:** SQL, MySQL, MongoDB

**Testing & Quality Assurance:** Unit Testing, Functional Testing, Debugging, Code Validation

**Cloud & DevOps:** AWS (EC2, S3 – fundamentals), Docker (container basics), CI/CD concepts

**Tools & Platforms:** Git/GitHub, GitLab, Visual Studio Code, Jira, Trello, Postman, Figma, Adobe XD, Photoshop, Illustrator

**Methodologies & Practices:** Agile (Scrum), SDLC, Secure Coding Basics, Accessibility Compliance, Code Reviews, Documentation, Compliance Awareness

## Projects

**Node.js Admin Dashboard:** Developed full-stack Express app with RESTful APIs, MongoDB integration, and CRUD functionality for admin management. [\[GitHub\]](#)

**PHP and MySQL Project** — Database CRUD Application Built a PHP-based CRUD web app with MySQL integration, form validation, authentication, and dynamic content rendering. [\[GitHub\]](#)

**Day & Night Garden (CSS Animation):** Created an interactive webpage with animated sky transitions, sun & moon movement, and form animation. [\[GitHub\]](#)

**JavaScript Project** — Interactive Web App Created a JavaScript-based interactive project demonstrating DOM manipulation, animations, and user interaction logic. [\[GitHub\]](#)

## Experience

### Humber College — Student & Developer | Toronto, ON | May 2025 – Present

- Engineered multiple responsive, high-performance web applications using HTML5, CSS3, JavaScript (ES6+), Bootstrap, and React, applying mobile-first and accessibility best practices.
- Developed RESTful APIs with Node.js and Express.js, implementing secure authentication, data persistence, and error handling.
- Built full-stack PHP & MySQL solutions featuring CRUD operations, login validation, image uploads, and session management.
- Architected a C# ASP.NET MVC application for managing academic data, integrating database connectivity and structured MVC workflows.
- Designed and deployed an Admin Dashboard using EJS templating and MongoDB, enabling real-time data visualization and dynamic content management.
- Created interactive front-end applications including a JavaScript Quiz System, Weather Dashboard, and Recipe Finder integrated with public APIs.
- Produced a CSS Animation project (“Day & Night Garden”), demonstrating advanced animation logic, state toggling, and DOM-driven transitions.
- Collaborated in a multidisciplinary IxD 5200 project to design a voice-activated home assistant enhancing safety and independence for older adults.
- Conducted user research, analytics, and usability testing with Figma and Sketch, focusing on intuitive interaction flows and empathetic UX.
- Developed and tested voice-command features using the JavaScript Speech Recognition API and presented a faculty-reviewed demo showcasing natural voice interaction and accessibility.
- Utilized Agile methodologies with Git/GitHub for sprint planning, version control, and code reviews.
- Emphasized clean architecture, modular code, reusability, and comprehensive documentation to ensure scalability and maintainability.

### Antiseptic Pro — UI/UX Designer | Toronto, ON | Dec 2021 – Feb 2022

- Led a full website redesign, improving usability, accessibility (WCAG 2.1), and performance.
- Created interactive wireframes and prototypes in Figma for mobile and desktop versions.
- Developed reusable UI components and implemented responsive layouts using HTML, CSS, and JavaScript.
- Optimized Shopify product pages, improving site speed and user conversion rates.

### 121 E Solutions — Web & UI/UX Designer | Ahmedabad, IN | Feb 2018 – Aug 2021

- Designed and maintained responsive websites optimized for performance and user experience.
- Partnered with developers to convert high-fidelity mockups into interactive front-end interfaces.
- Conducted usability testing to improve navigation flow, accessibility, and overall site performance.

### Digi3 Solutions — Digital Marketing Designer | Ahmedabad, IN | Mar 2016 – Jan 2018

- Developed and customized CMS-based WordPress and Shopify websites for clients across diverse industries.
- Produced digital marketing assets such as banners, infographics, and promotional graphics.
- Maintained brand consistency across all platforms through cohesive visual design systems.

## Education

Web Development — Humber College, Toronto, ON

Bachelor of Computer Engineering (Computer Science) — Gujarat Technological University, India (WES-evaluated as equivalent to a 4-year Canadian degree.)