**Nihal Patel**   
Boston,MA[NihalPatel](https://www.linkedin.com/in/nihal-patel059/)[n.patel016@umb.edu](mailto:n.patel016@umb.edu)617-560-0722

Education

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| **University of Massachusetts,Boston**  *Masters of Science in Information Technology*  *Coursework:* Web development, Project Change Management, Cloud Computing  **Gujarat Technological University ,India**  *Bachelor of Engineering in Computer Engineering*  *Coursework:* Algorithms, Mobile Application Development, Advanced Programming | Jan 2023 - Dec 2025 *Current GPA: 4.0/4.0*  Jun 2022 *GPA: 3.83/4.0* |

TECHNICAL SKILLS

**Cloud:** AWS (Lambda, S3, DynamoDB), Google Cloud   
**Languages:** Java, Python, C++, JavaScript   
**Web:** React.js, Node.js, Express.js, Django, Tailwind   
**Database:** MongoDB, DynamoDB, PostgreSQL, MySQL   
**Tools and Technolgoies** Git, Docker, Agile Scrum methodologies

Experience

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| **Software Engineer Intern** *| City of Boston* | Jun 2024 - Present |

- Designed and implemented UI for customer service catalog of Software Production services using React, Node.js, and other JavaScript tools.

- Conducted thorough testing and debugging to identify and resolve issues, resulting in a reliable and error-free software release  
- Implemented logging and monitoring tools, including Prometheus and Grafana, to ensure the operational readiness of microservices  
- Improved vulnerability scanning accuracy from 86Percent to 95Percent by implementing an automated workflow- Redesigned major service using Tekton pipelines, reducing hardware resources by 75 Percent, build time By 50Percent,and enhancing programmability  
- Created a simple yet powerful tool in Python that allows for easy uploading of artifacts to S3 buckets through a straightforward configuration process, reducing maintenance time for SREs by 25Percent

**Software Engineer** *| Umass Boston , Massachusetts*  Jan 2024 - Jun 2024

-Developed APIs and scripts improving data interoperability, saving 20 hours of manual work weekly  
- Secured email communications with SPF, DKIM, and DMARC protocols using AWS SES, reducing security risks by 40Percent  
- Automated data extraction from Outlook emails using OAuth2 with Microsoft Azure, saving 15 hours of manual processing weekly  
- Administered AWS EC2 instances for PHP applications, ensuring 99.99Percent uptime  
- Developed .NET applications with CSharp and ASP.NET, reducing processing time by 30Percent - Created an AI bot for booking study rooms with Node.js, React, and Tailwind CSS, increasing booking efficiency by 50Percent.

**Software Engineer Intern** *| Vnurture , Ahmedabad*  Nov 2021 - MAY 2022- Developed scalable web applications using React and Node.js, increasing development speed by 20Percent  
- Optimized database queries and implemented caching, reducing load times by 25Percent  
- Delivered high-quality code with less than 1Percent defects through thorough testing  
- Diagnosed and resolved issues, reducing downtime by 25Percent  
- Collaborated with cross-functional teams, implementing new features ahead of schedule with 4 teams and 15 engineers- Demonstrated self-motivation and effective stakeholder communication

Projects

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| **Fake News Detection** *| Python, NLP, ML, AWS* | Oct 2021 - Nov 2021 |

- Achieved 92Percent accuracy through predictive analytics and novel data sampling techniques- Optimized runtime by 40Percent via clustering classifiers  
- Exhibited strong problem-solving abilities with ensemble classifier clusters  
- Worked collaboratively, increasing project efficiency by 30Percent

**Stadium Spaces** *| React, Node.js, MongoDB, Stripe*  Jun 2023 - July 2023- Developed a real-time web app with React, Node.js, GraphQL, and MongoDB, increasing productivity by 20Percent- Integrated APIs and WebSockets, reducing synchronization time by 35Percent  
- Implemented user authentication with JWTs, enhancing security by 25Percent  
- Built REST APIs with DynamoDB, reducing data retrieval times by 30Percent  
- Managed user stories and delivered sprints in an Agile environment with 3 teams and 10 engineers

**Stock Price Prediction System** *| ML Models, Django, MySQL, JavaScript, MVT* Jan 2022 – April 2022

- Engineered platform to analyze and predict stock prices with 85Percent accuracy using React/Node.js- Created data visualizations with D3.js and WebSockets, improving user engagement by 20Percent- Containerized microservices with Docker and Kubernetes, reducing deployment time by 40Percent.

- Rapidly learned new frameworks to meet project needs, increasing delivery speed by 30Percent- Collaborated with team members, involving 2 teams and 8 engineers