Nihal Patel

Boston,MA NihalPatel n.patel016@umb.edu 617-560-0722

Education

University of Massachusetts,Boston Jan 2023 - Dec 2025
Masters of Science in Information Technology *Current GPA: 4.0/4.0*
Coursework: Web development, Project Change Management, Cloud Computing

Gujarat Technological University ,India Jun 2022
Bachelor of Engineering in Computer Engineering *GPA: 3.83/4.0*
Coursework: Algorithms, Mobile Application Development, Advanced Programming

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

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

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