

# NANDINI PATEL

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## Summary

Full-stack software engineer with 1+ years of development experience and proven career progression from Frontend Intern to Junior Developer. Strong foundation in .NET, Python, Angular, and SQL with experience building secure, scalable web applications and collaborating effectively in Agile development environments.

## Education

<b>Indiana University, Bloomington, IN</b> <i>Master of Science, Computer Science</i> (GPA: 3.78/4.00)	<b>Aug 2024 - May 2026</b>
<b>L. J. Institute of Engineering and Technology (GTU), Ahmedabad, India</b> <i>Bachelor of Engineering, Computer Engineering</i> (GPA: 9.37/10.00)	<b>Aug 2019 - Jun 2023</b>

## Skills

- Languages:** C#, Python, JavaScript, TypeScript, Java, SQL, HTML, CSS, R
- Frameworks/Libraries:** Angular, .NET, React, Node.js, TensorFlow, Keras
- Databases:** MySQL, PostgreSQL, MSSQL, Oracle
- Tools & Platforms:** AWS (EC2, S3, QuickSight), GitHub, Tableau, PySpark, Hadoop, Snowflake
- Other:** RESTful APIs, Agile/Scrum, ETL, Data Warehouse, Data Analysis, Database Management, Pandas, MATLAB, NumPy, Seaborn, Statistics, Machine Learning

## Work Experience

<b>MyEdMaster LLC</b>   <i>Software Developer Intern</i>	<b>Jun 2025 - Aug 2025</b>
<ul style="list-style-type: none"><li>Configured dashboard and navigation system, making switching across 5 core modules smoother and the user experience more effortless.</li><li>Implemented a secure login and profile system (React.js, Python, MySQL) with multi-device access.</li><li>Created reusable frontend components and synced with backend APIs, speeding up development by 25% and keeping the codebase clean.</li><li>Helped develop the search and chat features supporting 100+ daily user interactions between entrepreneurs and partners.</li></ul>	
<b>MobMaxime (Eventtan Pvt. Ltd.)</b>   <i>Junior Web Developer</i>	<b>Dec 2023 - Jul 2024</b>
<ul style="list-style-type: none"><li>Led development of 4 scalable web applications using ASP.NET and C#, focusing on performance optimization and system reliability.</li><li>Collaborated with frontend, backend, and QA teams, deployed modular backend systems, and improved development productivity by 20%.</li><li>Promoted to full-time role within 6 months based on consistent performance across previous internship positions.</li></ul>	
<b>IBM SkillsBuild (CSRBOX Foundation)</b>   <i>Data Analyst Intern</i>	<b>Feb 2023 - May 2023</b>
<ul style="list-style-type: none"><li>Processed 500K+ records using SQL and Python, developing insights that increased reporting accuracy.</li><li>Applied statistical modeling and regression to identify key user behavior patterns to guide 3 strategic decisions.</li><li>Streamlined data cleaning processes, reducing dataset preparation time by 40%.</li></ul>	
<b>MobMaxime (Eventtan Pvt. Ltd.)</b>   <i>Web Developer Intern</i>	<b>Feb 2023 - May 2023</b>
<ul style="list-style-type: none"><li>Built adaptive web interfaces using ASP.NET and Angular with improved response times by 25%.</li><li>Connected SQL backends with RESTful APIs, improving data fetch operations.</li><li>Utilized Entity Framework for efficient SQL database management, improving database performance.</li></ul>	
<b>MobMaxime (Eventtan Pvt. Ltd.)</b>   <i>Frontend Developer Intern</i>	<b>Apr 2022 - Jun 2022</b>
<ul style="list-style-type: none"><li>Implemented responsive UIs in Angular with focus on mobile-first design and cross-browser compatibility.</li><li>Engineered reusable Angular components and developed component library for consistent design patterns across 3 company projects.</li><li>Optimized JavaScript and CSS performance, implementing lazy loading and code splitting techniques.</li></ul>	

## Projects

### Readers Nest - Library Management System

- Built a full-stack application serving 1K+ records using Angular 17, ASP.NET Core, and SQL Server.
- Applied JWT authentication and role-based access to prevent unauthorized access and ensuring secure logins for all users.
- Designed book and category management for efficient record handling and user management for admin-controlled access.
- Constructed responsive single-page application with fast loading times and intuitive navigation.

### COVID-19 Healthcare Analytics Platform

- Engineered distributed data pipeline using PySpark, Hadoop, and AWS (EC2, S3, QuickSight) to analyze 5M+ COVID-19 patient records.
- Optimized queries with partitioning, bucketing, and compression.
- Launched real-time AWS QuickSight dashboards for ICU occupancy, infection trends, and resource tracking.
- Designed predictive models and a scalable cloud architecture for healthcare resource management, planning and forecasting.

### House Price Prediction Model

- Crafted machine learning model from large datasets using linear regression and decision tree algorithms, achieving  $R^2$  score of 0.82 on test data.
- Processed and cleaned datasets from 3+ real estate sources for accurate modeling.
- Created data visualizations with Python libraries (Matplotlib, Seaborn) for stakeholder presentation.