

# VAIBHAVI NILESHKUMAR SHAH

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## EDUCATION

**MS in Computer Science, Stevens Institute of Technology, New Jersey, US** **GPA: 3.73/4, Expected May 2025**

**Courses:** Algorithms, Mathematical Foundations of ML, Fundamentals of Computing, Deep Learning, DBMS, Applied ML, Web Programming, Agile, Fundamentals of Cybersecurity

**B.E. Information Technology, Gujarat Technological University, Ahmedabad, India** **CGPA: 8.84/10, Jun 2019**

**Courses:** JAVA, C++, Cyber Security, Analysis and Design of Algorithms, Computer Graphics, Distributed DBMS, Data Compression and Data Retrieval, Data Mining and Business Intelligence, Artificial Intelligence, Advanced Engineering Mathematics.

## TECHNICAL SKILLS

<b>Programming:</b>	<b>Java, JavaScript, TypeScript, React.js, Node.js,</b> Python, C, C++, Flask, HTML, CSS, jQuery, JSP, JSTL, Agile Methodology, REST APIs, TDD
<b>Database:</b>	MySQL, PLSQL, MongoDB, PostgreSQL, Tableau
<b>Tools and Frameworks:</b>	TensorFlow, Scikit-Learn, OpenCV, Oracle Application Framework, JDeveloper, Eclipse, Net Beans, PyCharm, Jira, RStudio, Latex, Visual Studio, Project Accounting Oracle, WinSCP, Putty, HPPM, Jupyter, MSOffice
<b>Certifications:</b>	Programming with C Language, Programming with C++ Language, J2EE, <a href="#">Learning Full-Stack JavaScript Development: MongoDB, Node, and React</a>

## PROFESSIONAL EXPERIENCE

**System Engineer, Tata Consultancy Services, India** **Jul 2019 – Jul 2023**

- Spearheaded a team of four for a Finance Month-End project, improving Oracle application performance by 30% and enhancing task completion rates by 50%.
- Optimized setup configurations, refining schedule programs and feature, resulting in a 35% performance improvement.
- Engineered user-friendly pages using Oracle Application Framework (OAF), PL/SQL, JavaScript, and JSON, enhancing user experience by reducing processing time and simplifying navigation for complex financial tasks.
- Leveraged JDeveloper, PuTTY, HP PPM, and WinSCP to drive development, testing, and migration of modules across instances, accelerating testing processes and improving system performance by 3x.
- Administered project accounting and finance-related technical and functional issues by operating PLSql and oracle application, reducing user errors by 30% and boosting operational efficiency by 20%.

**Intern, SoftVan, India**

**Nov 2018 – Apr 2019**

- Developed and integrated an innovative finger spelling conversion feature into TRANSENSE, enabling seamless communication between special-abled individuals and other users, increased accessibility and inclusivity.
- Employed Java, Spring boot, Python and SQL for backend, and HTML, JavaScript and CSS to crafted 12+ frontend interface.
- Established Spring Cloud to improve scalability, flexibility, and resilience of project's micro-services architecture, resulting in 30% faster response times and communication across system components.

## PROJECTS

**NJFloodNet – Real-Time Flood and Rainfall Data Monitoring** **Nov 2024**

- Deployed NJFloodNet, a real-time IoT with REST APIs flood monitoring app with 90% uptime, featuring an interactive map, user authentication, and flood severity analysis.
- Implemented Scrum to deliver key features through sprints to ensure iterative development and timely feedback.
- Added data downloads, photo reporting, and email alerts via JavaScript, HTML, CSS, React.js and Node.js routes.

**Sprint-To-Health**

**Oct 2024**

- Led a team as Scrum Master to develop a voice assistant platform for seniors, incorporating JavaScript, HTML, CSS, JSON, and LLM for health-related queries and personalized care, while managing the project with Jira.
- Built a health dashboard with real-time vitals, appointment and medicine notifications, boosting user engagement by 40%.
- Engineered secure communication logs and error handling for 100% ethical and reliable assistant responses and automated deployment with CI/CD pipelines.

**Online Shopper Purchase Intention Prediction**

**Jan 2024 – Apr 2024**

- Executed a machine learning model with decision trees, random forests, and XGBoost, achieving ~90% accuracy in predicting online shopper purchase intentions using session data and behavior features.
- Created an advanced e-commerce analytics tool to analyze customer behavior data, enabling targeted marketing and website optimization, resulting in a 40% conversion rate increase, revenue growth, and cost saving.
- Optimized predictive sales models in Python, cutting forecast errors by 10% to enhance efficiency and strategic decisions.

**Adventure – Text base Game**

**Oct 2023 – Nov 2023**

- Designed a text-based adventure game in Python featuring item interaction, locked doors, win/lose states, and multiple maps, utilizing object-oriented programming for modularity and a user-friendly experience.
- Achieved 100% test coverage for core functionalities, streamlining code size by 25% through code modularization.