

Pratik Nesarkar

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EDUCATION

Texas A&M University, College Station, TX

August 2024 – May 2026

Master of Science in Management Information Systems

GPA: 4.0 / 4.0

Relevant Coursework: Blockchain & AI, IT Project Management, Advanced Data Management

Shivaji University, Kolhapur, India

July 2016 – May 2020

Bachelor of Engineering in Information Technology

GPA: 3.9 / 4.0

Relevant Coursework: Web-Technologies, Object-Oriented Programming, Big Data & Hadoop

EXPERIENCE

Bentley Systems

Pune, India

Full-Stack Software Engineer-1, iTwin Experience

September 2020 – May 2024

- Engineered **15+ reusable React components** for global 3D modelling product teams, building websites based on dynamic component architecture, boosting uniform UX and improving performance by 37%.
- Pioneered development and integration of a real-time **data management platform** to visualize IoT sensor data and optimized state management using redux, nearly doubling the time efficiency of data retrieval.
- Secured and optimized **20+ REST APIs** in a microservices architecture using Express.js, **reducing security vulnerabilities** by 18% through authentication, input validation and test-driven development.
- Drove team performance by achieving a **14% increase in OKRs** through use of **agile proof of concepts (POC)** based approach, expediting feature delivery and mitigating risk of late-stage failure.
- Revamped **~15% of C++ codebase** for MicroStation 3D modelling software by replacing unsafe code in the low-level programming language, resulting in **28% rise in Trust-Center rating** during Q4 audit report.

Bentley Systems

Pune, India

Software Development Intern

June 2019 – August 2019

- Contributed to coding of a purely **modular website template** with dynamic web components using typescript, utilized as template for **8 Bentley web products**, cutting duplication of development efforts by 35%.
- Delivered 3 technical demonstrations during corporate presentations, clearly articulating feature capabilities and key deliverables, which enhanced visibility and contributed to a notable increase in client engagement.

ACADEMIC EMPLOYMENT

Texas A&M University, Mays Business School

College Station, TX

Graduate Teaching Assistant

January 2025 – Present

- Mentored **500+ students** for Fundamentals of Information Systems through one-on-one sessions and hands-on coding exercises leading to a 20% **growth in engagement** and a 92% **course satisfaction** rate.
- Assisted the professor with **redesigning** crucial coding exercises and proposed inclusion of latest industry-**relevant case studies**, further boosting student participation and assignment completion by 15%.

PROJECTS

IOT-Based Smart Fuel Monitoring System 🚗

September 2019 – March 2020

- Ideated and built an IoT-powered system **using Android® and Arduino**, for instant fuel theft monitoring.
- Analyzed fuel input-output patterns with **linear regression models**, achieving 97.5% accuracy in actionable insights for performance optimization.
- Deployed the complete **hardware setup and mobile app** reflecting sensory analysis data in near real-time **within 5 months**, demonstrating unprecedented optimization using **iterative agile development strategies**.

ERP Database Optimization Project with AWS

August 2024 – December 2024

- Designed a robust database using **MariaDB** incorporated **ETL processes** and streamlined database operations.
- Transformed the relational model into **MongoDB** NoSQL model to improve performance, introducing **aggregates** to the **document-based database** to expedite read and write operations by 65%.

SKILLS, ACTIVITIES & INTERESTS

Prof. Certifications: Professional Scrum Master (Scrum.org), Bentley Accredited Developer (Bentley Systems)

Languages & Frameworks: React, JavaScript, SCSS, C#, C++, Python, HTML/CSS, Node.js, Typescript, etc.

Platform Tools & Databases: AWS (EC2), GCP, MS Azure, GitHub, Docker, MS SQL, MongoDB (NoSQL)

Other Skills: Cybersecurity, Power BI, MS Project (PM), Kali Linux Tools, Qualtrics, Survey Designs, Testing

Hobbies/Interests: Landscape photography, trekking/camping, social work, UI/UX, fixing electronic gadget, etc.