Pratik Nesarkar

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Result-driven professional with 3+ years of experience working in cross-functional development teams to boost product development through agile, test-driven development and seamless integration of frontend and backend technologies. Seeking a Software Development Internship to build impactful, full-stack solutions.

EDUCATION

Texas A&M University, Mays Business School   August 2024 – May 2026
Master of Science in Information Systems   *GPA: 4.0 / 4.0*
Coursework: System Analysis & Design, Blockchain & AI, Advanced Data Management

Shivaji University   July 2016 – May 2020
Bachelor of Engineering in Information Technology   *GPA: 3.9 / 4.0*

EXPERIENCE

Bentley Systems   September 2020 – May 2024
Software Engineer-1, iTwin Experience
- Engineered 15+ reusable React components for global 3D modelling product teams, utilizing the dynamic component architecture, boosting uniform UX and improving performance by 37%.
- Developed and integrated reality data management platform to visualize IoT sensor data and optimized state management using Context APIs, doubling data-retrieval speed and saving clients ~$500K annually.
- Secured and optimized 20+ REST APIs in microservice architecture using Express.js, by enforcing strict validation and test-driven development principles eliminating 28% of critical vulnerabilities.
- Drove team performance through use of agile proof of concept (POC) based approach, expediting feature development using Azure DevOps, mitigating risk of late-stage failure and achieving a ~15% increase in OKRs.
- Enhanced reliability and security of MicroStation 3D modelling software by upgrading legacy codebase, revamped unsafe C++ native code, achieving 28% improvement in the 2021-Q4 security audit report.

Bentley Systems   June 2019 – August 2019
Software Development Intern, PlantSight
- Developed a modular website template in JavaScript, integrating RxJS for state management to enhance scalability and reusability, cutting redundant development efforts by 35% across 8 Bentley products.
- Presented three technical demonstrations during corporate presentations, clearly articulating feature capabilities and key deliverables, resulting in increased product visibility and notable boost in client engagement.

PROJECTS

Boxer Properties – Tenant Retention Solution   🔗 (GitHub Link)
- Interviewed key stakeholders to document challenges, followed by an in-depth analysis of 446+ tenant requests, CRM data, and workflows to identify and pin-point gaps in manager performance & fast issue resolution.
- Designed proactive engagement framework for cross-functional workflows with automated decision triggers & predictive churn analytics, mirroring Organizational Change Management practices to boost retention by 85%.

IOT-Based Smart Fuel Monitoring System   🔗 (GitHub Link)
- 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.

SKILLS

Certifications: Professional Scrum Master 1 (Scrum.org), Bentley Accredited Developer (Bentley Systems Inc.)
Scholarship/Awards: Mays MS Excellence Scholarship 2025, iTwin Collaboration Excellence Award 2023
Tools & Technologies: React, JavaScript, C#, ASP.Net, C++, HTML/CSS, Node.js, Typescript, Java, SCSS, etc. AWS (EC2), Google Cloud, MS Azure DevOps, GitHub, Docker, MS SQL, MongoDB (NoSQL), Power BI, Jira, MS Project (PM), Kali Linux Tools, Swagger, Postman, Airtable, A/B Testing Tools, etc.