

# Pavan Kalyan Meesala

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## EDUCATION

**The University of Texas at Dallas**

**May 2025**

*Masters In Information Technology and Management*

**Jawaharlal Nehru Technological University, India**

**August 2021**

*Bachelor of Technology, Computer Science and Engineering*

**Relevant Coursework:** Data Structures, Database Design, Machine Learning, Design and Analysis of Algorithms, Big Data, Web Programming Languages, Statistics for Data Science, Software Engineering, Business Data Warehousing.

## SKILLS

**Languages:** Java, Python, C/C++, C#, JavaScript, JQuery, HTML5, CSS, PHP, React, .NET, Angular, PySpark

**Databases & Operating Systems:** MySQL, PostgreSQL, SQL Server, Oracle, MongoDB, Windows, UNIX, Linux, MacOS

**Other:** System Design, Full Stack Web Development, REST APIs, Node.js, Project Management, Jira, Hadoop, Spark, Flask, Spring Framework, Git, Maven, Docker, Kubernetes, Jenkins, AWS, Agile, Scrum, Object-Oriented Design Patterns.

## PROFESSIONAL EXPERIENCE

**Syniti, Hyderabad, India**

**April 2022 – July 2023**

*Software developer*

- Involved in the entire software development life cycle of SiteScope, undertaking tasks such as design and development of new features, debugging, unit testing, and code review for diverse React and Node modules.
- Collaborated with cross-functional teams within the ITOM platform and developed a REST API to enable seamless integration between products, enhancing product interoperability. Implemented caching support for SiteScope, resulting in an impressive 80% reduction in loading times.
- Architected and maintained ETL data pipelines to efficiently gather data from multiple sources and built machine learning models to classify the data, providing valuable insights to stakeholders.
- Led a team of 4 to analyze and fix around 2000 critical and high-security vulnerabilities, enabling the product to reach security level 3. Spearheaded the development of database monitoring using proficiency in database query languages like PostgreSQL, Oracle, and MySQL.
- Demonstrated expertise in unit testing and Test-Driven Development, ensuring software reliability and adherence to requirements throughout the development lifecycle.
- Adept in source control management using SVN & Git, CI/CD pipelines (GitLab CI/CD), and containerization using Docker. Automated test cases using Python and Robot framework, saving 32 hours of manual effort per testing cycle.

**Nerds & Geeks**

**January 2021 – April 2022**

*Software Development Engineer, Remote*

- Spearheaded native mobile Software development for an international e-commerce client, steering a team remotely to create a high-impact solution utilized by over 100,000 users worldwide. Achieved a significant sales increment of 35% since the application's launch.
- Directed research initiatives, guided interface design, and ensured adherence to project timelines through the implementation of positive Scrum practices, showcasing adept project management skills.
- Engineered optimal database design techniques and load balancing, increasing application performance by 40% and achieving a glitch-free user experience through rigorous testing and efficient component development.
- Hands-on experience with React, Node.js, Git, and Firebase, contributing to the development, version control, and deployment of the application.
- Utilized React and Node.js for frontend and backend development, ensuring seamless integration and robust performance. Leveraged Firebase for backend services, including real-time database, authentication, and hosting.

## ACADEMIC PROJECT EXPERIENCE

**Unique Code based Online Attendance System with Fraud Prevention**

**January 2021 – July 2021**

- Managed the team that developed an online attendance system with 5 tier protection to prevent malpractices.
- Features include location comparison, face detection, authentication functionality and a unique code to ensure only students present in the classes can mark attendance.
- Conducted 3 rounds of testing on a sample of 70 students in a live college with 100% successful prevention of malpractices. Software development has been published in an academic journal.