Yeswin Chintapalli

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Education

- **Purdue University** — Fort Wayne, Indiana, USA
  Master of Science in Computer Science GPA: 3.83 — *August 2024 - May 2026*

- **Amrita Vishwa Vidyapeetham** — Kerala, India
  Bachelor of Technology in Mechanical Engineering; CGPA: 7.22 — *July 2017 - June 2021*

Professional Experience

- **Hexagon Capability Center India** — Hyderabad, India
  Software Developer — *April 2022 - July 2024*
  - Led Smart3Dx modernization by updating Route Duct and Route Pipe features using **.NET (C#), C++, and VB.NET**, enhancing software efficiency. Applied object-oriented programming (OOP) principles to ensure scalable, maintainable, and high-performance solutions.
  - Developed and implemented StraightFeature commands, spool generation, and pipe/duct splitting in **Smart3Dx using C#**, enhancing route design efficiency by **15%** and reducing design time by **30%**, resulting in user savings of up to **$500** per month.
  - Ensured high code quality for the Smart3Dx application by conducting **Coverity** static analysis and resolving over **95%** of identified issues, including reference leaks, resulting in improved application stability and maintainability.
  - **Automated** workflows for Route Commands in the RouteDuct project using **.NET Framework** and implemented **unit testing** with **Telerik JustMock**, improving regression testing efficiency by **25%**.
  - Ensured high-quality standards by identifying and resolving over **30 bugs** across multiple areas of the project, improving system reliability and reducing production issues by **30%**.
  - Innovated the Set Allowable Specification command during **innovation**, allowing users to set all required specifications in one action, reducing user time by **20%** and increasing workflow efficiency.
  - Managed source code with **Git and TFS**, handling branching and merging, reducing merge conflicts by **30%** and ensuring smoother project progression.
  - Participated in **Scrum activities** including **sprint planning, standups, user stories, and retrospectives**, improving team efficiency by **25%** and reducing sprint cycle times by **20%**.

Technical Skills

- **Programming** : C#, Java, Python, C, C++,VB6, JavaScript
- **Key Skills** : Algorithms and Data Structures
- **Operating Systems** : Windows, Linux
- **Tools And Technologies** : Visual Studio, Solid Works, GIT, WPF
- **Databases** :MySQL, MongoDB
- **Frameworks** : .NET Framework
- **Testing** : UnitTest(Telerik)
- **Work Models** : Scrum, Agile

Projects

Course Resource Library 2.0 (**MongoDB, Express.js, React.js, Node.js**)
- Developed and deployed a web-based platform for **students to view and access course content, quizzes, and certificates**, integrating **MongoDB** for data storage and user management.
- Implemented role-based access control, enabling **admins to manage course content and track student progress**, ensuring seamless content management and course statistics.

Community Event Management Platform (Eventify) Purdue University, CS 590: Low Code/No Code
- Implemented and deployed a mobile app enabling **100+ users to create, manage, and discover events, integrating Firebase** for seamless authentication and payments.
- Led backend development, resolving **10+ critical errors**, optimizing data flow, and ensuring **99.9%** uptime for real-time event updates.

Research Publications

Physical properties of Nano Al2O3 reinforced NBR/SBR blends   **September-2021**
https://doi.org/10.1016/j.matpr.2021.08.241

Rubber Property Enhancement Research Conducted experimental research on improving rubber's physical properties through fillers, achieving a **25%** increase in tensile strength and **20%** better abrasion resistance. Published results demonstrating applications in manufacturing and material science.

Certifications

- **C# Advanced Topics: Classes, Interfaces and OOP**   Udemy
  http://ude.my/UC-42e6805d-8fae-4401-9336-b3e7d79b8bc2

Achievements

- Won a "**Spot Award**" twice for fixing bugs in a short time at Hexagon Capability Center India.