

POOJITHA VEMPALLI

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| <https://github.com/PoojithaVempalli>

EDUCATION

University of North Texas, Denton

Master of Science in Computer Science

Texas, USA

May 2025

Coursework: Computer Algorithms, Fundamentals of Database, Multimedia Computing, Distributed and Parallel Database Systems, Introduction to Big-data and Data Science, Software Engineering, Software Development for Artificial Intelligence, Wireless Networks and Protocols, Machine Learning, Deep Learning and Computer Networks. **CGPA: 4/4**

Sri Venkateshwara College of Engineering

Bachelor of Electronics & Communications Engineering

Andhra Pradesh, India

Coursework: Computer algorithms, Java – Fundamentals, Operating systems, Network engineering, Network Topological engineering. **CGPA: 8.1/10**

EXPERIENCE

Full Stack Development & ML Intern

[Divinity Science](#)

Remote

Sep 2025 – Present

- Developed and deployed **machine learning models**, including **decision tree classifiers**, to optimize business insights and predictive analytics, improving accuracy by **18% in client reporting** pipelines.
- Designed and tested **end-to-end ML workflows on Azure AI**, leveraging **Azure Machine Learning Studio** and **Azure Blob Storage** for scalable training and deployment.
- Built REST APIs in Python (**FastAPI/Flask**) to **serve ML models**, enabling seamless integration with existing web applications.

Full Stack Developer Intern

[Fashion Index](#)

Remote

Jan 2025 – May 2025

- Developed **full-stack basic plan subscription feature** with Stripe integration (Checkout + Billing Portal).
- Designed **responsive UI** for tiered plans using **HTML, CSS, JS, and React**.
- Built **backend APIs in Node.js/Express** for Stripe sessions, webhooks, and pricing logic.
- Managed **MongoDB schema** for real-time subscription syncing and access control.
- Led **end-to-end development** from planning to deployment, ensuring performance and reliability.
- Utilized **Git for version control**, ensuring clean commit history, collaborative workflow, and rollback safety.

Software Engineer

[Capgemini Technology Services](#)

Bangalore, India

Nov 2022 – Sep 2023

- Proficient in developing and maintaining web applications, with a focus on **full-stack** development.
- Utilized **Spring Boot and Core Java** to build and maintain robust server-side components, leading to a **15% increase in application efficiency** and worked with CI/CD pipeline.
- Designed and implemented responsive user interfaces, resulting in a 20% increase in user engagement.
- Developed **dynamic web pages Angular**, improving page load speed by 25% and user satisfaction by 30%.
- Managed SQL Server and **MongoDB databases**, optimizing data storage and retrieval processes, **reducing query times by 20%**.

Project Intern

[Wipro Technologies](#)

Remote, India

Jan 2022 – Jun 2022

- Developed **enterprise-grade applications using Java/J2EE** technologies including Servlets, JSP, and JDBC.
- Applied object-oriented design principles and wrote clean, efficient, and maintainable Java code.
- Gained hands-on experience in server-side programming paradigms and **J2EE frameworks**.
- Collaborated in an **Agile environment**, contributing to all stages of the project lifecycle—requirement analysis, design, implementation, and testing.
- Worked with version control systems and team collaboration tools, ensuring smooth project delivery.
- Strengthened problem-solving abilities and adaptability through active mentorship and continuous learning.

TECHNICAL SKILLS

Programming Languages: Java, Python, C

Databases: MySQL, SQL Server, **Mongo DB**

Web Technologies: HTML5, CSS, **JavaScript**, React, Angular

Backend & APIs: Node.js, Express.js

PROJECTS

3D - Portfolio (<https://portfolio-gilt-nine-58.vercel.app/>)

May 2025

***Tools & Platform:** HTML, CSS, JavaScript, Vercel - Deployment, (Visual Studio Code - editor)*

- This portfolio stands out as a 3D interactive experience, combining cutting-edge web technologies like Three.js and GSAP to create dynamic visuals and engaging user interactions.
- It offers an immersive way to explore my skills, projects, and achievements, making the portfolio not just a showcase but an interactive journey through my professional and academic growth.
- A Virtual Assistant is built using the ChatGPT API, which helps the users to understand deeper about my skills and life.

Public Restroom Locator System

May 2024

***Tools & Platform:** HTML, CSS, JavaScript, Firebase, (Visual Studio Code - editor)*

- **Developed a comprehensive web-based solution** to locate public restrooms, enhancing accessibility for over 10,000 users using HTML, CSS, JavaScript, and MongoDB.
- **Implemented key features** including user dashboards, multi-language support, map display, location-based search, real-time availability, QR code scanning, and an admin dashboard, resulting in a 35% increase in user engagement.
- Through real-time updates and user-generated feedback, reducing search time by 40% and promoting cleanliness and efficiency in public sanitation infrastructure. **Project link:** [Public Restroom Locator System](#)

CERTIFICATIONS

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| • Microsoft Certified: Azure Fundamentals | • AWS Certified: Developer Associate |
| • AWS Certified: Cloud Practitioner | • Google Cloud Certified: Cloud Digital Leader |
| • Data Bricks: Fundamentals Certification | |