

VAMSI TEJ CHOWDARY DABBAR

Cincinnati, OH | 513-266-2328 | dabbarvy@mail.uc.edu | <https://vamsitejchowdary.com/>
Available Starting May 2025

PROFESSIONAL SUMMARY

- Dynamic and results-oriented **Software Engineer** with 3+ years of hands-on experience, poised to expand to **5+ years** with a Master's degree. Expertise in developing scalable and high-performance web applications using **React, Next.js, .NET, and JavaScript**. Proficient in **cloud services** (AWS, including **Lightsail, CloudWatch, SNS**) and **DevOps practices**, ensuring reliable and efficient website hosting, monitoring, and communication.
- **Full-stack development**: Building and deploying dynamic web applications using modern technologies like **React, Next.js, Node.js, and Express**.
- **Cloud Infrastructure**: Extensive use of **AWS** to manage and optimize hosting environments, leveraging **Lightsail** for scalable deployments, **CloudWatch** for continuous monitoring, and **SNS** for real-time notification management.
- **CI/CD and DevOps**: Expertise in **Azure DevOps, GitHub Actions, and Docker** for continuous integration and deployment pipelines.
- **API Development**: Building and consuming **RESTful** and **GraphQL APIs** for seamless integration with front-end and third-party services.
- **E-commerce development**: Designing and implementing end-to-end e-commerce solutions with a strong focus on performance, security, and user experience.
- Skilled in **system monitoring**, ensuring high uptime and performance by utilizing **AWS CloudWatch** for health checks and custom alarms. Adept at enhancing system communication through **AWS SNS**, sending transactional emails, and SMS notifications to ensure timely interactions.
- Passionate about adopting new technologies, streamlining workflows, and delivering innovative solutions. Strong problem-solving abilities with a focus on creating intuitive user experiences and maintaining secure, scalable applications.

PROFESSIONAL EXPERIENCE

Tech Intern, TrueChoicePack, Cincinnati, Ohio-45069.

November 2024 – Present

- Worked extensively with **AWS Lightsail** to host multiple websites, utilizing its affordable **virtual servers**, managed databases, and pre-configured application stacks for rapid deployment and management of web applications.
- Configured and used **AWS CloudWatch** for monitoring website performance, setting up custom health checks, and tracking metrics like CPU utilization, memory usage, and network traffic.
- Created **CloudWatch alarms** to automatically alert for any issues such as downtime, performance degradation, or resource utilization spikes, ensuring proactive resolution of problems and high uptime.
- Configured **AWS SNS** to send real-time notifications for system events, such as server health alerts and maintenance updates, to enhance communication efficiency.
- **Integrated SNS with CloudWatch alarms**, enabling automatic notifications **via email or SMS** when specific thresholds were breached, improving system reliability and response time.
- Used **SNS** to send transactional emails and updates for e-commerce websites, such as order confirmations, shipping notifications, and promotional offers, ensuring timely communication with users.
- Maintained and secured hosted websites on **AWS Lightsail** by applying regular security updates, utilizing automated backups, configuring firewalls, and managing SSL certificates to ensure compliance and safeguard data.
- Monitored website performance through **CloudWatch** metrics and resolved any performance or security issues detected, ensuring optimal user experience and availability.
- Designed and developed an e-commerce website from scratch using a combination of code-based development and no-code tools, speeding up the deployment process and enabling rapid prototyping.
- Implemented key e-commerce features like product catalogs, shopping carts, and secure payment gateways while optimizing the website for scalability and performance.

Associate Software Developer, WEST Pharmaceutical's, Bengaluru, India.

October 2022 – July 2023

WEST ALERT SYSTEM – Employee Survey & Task Reminder Automation

- **Designed and implemented a survey collection and task reminder system** within the **ASP.NET framework**, streamlining employee engagement and productivity.
- **Developed a backend service** in **.NET Core (C#)** that securely stores **employee responses** in **SQL Server**, ensuring **efficient data management** and retrieval.
- **Automated follow-up reminders** using **Azure Logic Apps** and **Power Automate**, reducing **manual intervention** in tracking employee task completions.

- **Integrated email and push notification services** via **Azure Notification Hubs**, ensuring employees receive **timely task reminders**.
- **Deployed the system** on **Azure App Services**, ensuring **high availability** and **seamless scalability**.

WEST ALERT SYSTEM – Chatbot Development for Employee Engagement

- **Developed a conversational chatbot** using **Microsoft Azure Bot Services**, enhancing **employee interaction** with the **West Alert System**.
- **Trained the chatbot** using **LUIS (Language Understanding Intelligent Service)**, enabling it to recognize **keywords and phrases** from an **Excel-based dataset**.
- **Integrated the bot** with **Azure QnA Maker**, allowing it to fetch **relevant responses** from **pre-defined knowledge bases** and assist employees with their **queries**.
- **Implemented an Azure Function** to process **real-time employee requests** and fetch relevant **data stored in SQL Server**.
- **Deployed the chatbot** across **Microsoft Teams** and a **web-based frontend**, allowing employees to receive **alerts**, submit **responses**, and track their **assigned tasks**.

Vendor Management System – Development & Process Automation

- **Managed the ongoing support and enhancements** for the **Vendor Management System**, a **key application** that simplifies **external employee processes**.
- **Developed a .NET Core-based module** to allow **external employees** to submit **timesheets** and **leave requests**, ensuring **smooth HR operations**.
- **Implemented automated timesheet approval workflows** using **Power Automate**, reducing **processing time** for **HR teams**.
- **Integrated RBAC (Role-Based Access Control)**, ensuring that **vendors, managers, and HR personnel** had the **appropriate access levels**.
- **Optimized SQL Server stored procedures and indexing**, enhancing the **system's performance** for **high-volume data processing**.

Graduate Software Trainee, WEST Pharmaceutical's, Bengaluru, India

January 2022 – September 2022

Stock Market Portfolio Application

- **Developed a stock market portfolio management system** during my internship, enabling users to efficiently manage their stock selections.
- **Built the application** using **.NET Core (C#) for backend development**, ensuring high performance and scalability.
- **Implemented a structured database with SQL Server**, optimizing queries for **fast retrieval of stock data**.
- **Created a secure and intuitive user authentication system** using **ASP.NET Identity**, allowing seamless login and account management.
- **Designed automated stock reports** using **Power Automate and Azure Logic Apps**, reducing manual effort for tracking portfolio performance.
- **Deployed the application** via **Azure App Services**, ensuring seamless scalability and availability.
- **Managed CI/CD pipelines in Azure DevOps**, automating build, test, and deployment workflows.

Vendor Management System – Phase 2 (HR Process Automation)

- **Led the second phase** of a **Vendor Management System** designed to streamline **HR approval workflows** and eliminate manual processing.
- **Developed automated report generation and approval workflows** using **Power Automate and Azure Logic Apps**, significantly reducing HR processing time.
- **Integrated .NET Core backend services** with **SQL Server**, ensuring efficient data management and retrieval.
- **Designed system-generated reports** to be automatically sent to HR personnel at WEST company, eliminating manual report creation.
- **Utilized Azure Functions** to handle background tasks, such as periodic data synchronization and automated email notifications.
- **Implemented role-based access control (RBAC)**, ensuring that vendor approvals and data access were secure and restricted to authorized users only.

Web Developer(Intern), TechCiti Software Consulting PVT LTD, Bengaluru, India.

January 2021 – November 2021

- **Developed a user-friendly complaint registration portal**, enabling individuals to **file complaints online** without physically visiting a police station, streamlining the reporting process.
- **Built the frontend** using **HTML, CSS, and JavaScript**, ensuring a **responsive, intuitive, and accessible interface** for users across different devices.
- **Integrated form validation and real-time feedback mechanisms**, enhancing **user experience** and ensuring accurate data submission.
- **Implemented a secure complaint tracking system**, allowing users to monitor the **status of their reports in real-time**.
- **Optimized the UI/UX design**, ensuring a seamless workflow for both **users and authorities handling the complaints**.
- **Focused on scalability and security**, implementing measures to protect **user data and prevent unauthorized access**.

Projects and Startups

A novel approach for effective crop production using Machine Learning (Published Paper)

June 2021

- The central focus of this project revolves around helping farmers in addressing a significant challenge: the potential for profit and cost losses. The project involves the creation of a robust decision-making model, empowering farmers to make informed choices. By leveraging trained data, the model enables farmers to determine the viability of cultivating a specific crop in a particular location, effectively mitigating potential risks.
- Frontend is developed using HTML, CSS, JS and python for backend.

Digital Resume (vamsitejchowdary.com):

- Crafted an engaging digital resume to reflect skills, projects, and achievements in a visually compelling format.
- Features an intuitive, mobile-friendly design, ensuring accessibility across devices.
- Highlights include project portfolios, skill charts, and an interactive contact section.
- Engineered with **React** for the frontend and **Node.js** for backend functionality, enabling dynamic updates and seamless user interactions.
- Deployed on **Netlify**, leveraging GitHub for continuous integration and smooth deployment.

Hours Tracker (hourstracker.onrender.com):

- Created a shift-tracking application for employees to clock in and clock out.
- Features include user authentication, time tracking.
- Delivered a functional app that simplifies shift management for employees.
- Frontend built with **React**, backend powered by **Node.js**, database managed using **MongoDb Compass**, and deployed with a free domain via **Render**.

Telugu Film Insights (telugufilminsights.com):

- Developed a movie review platform for Telugu cinema enthusiasts.
- Integrated features for users to submit reviews and participate in a lottery system to win free tickets.
- Built using modern web development technologies to ensure seamless user experience.
- Frontend built with **React**, backend powered by **Node.js**, database managed using **Google Firestore**, and deployed with a custom domain via **Netlify**.

Foode Alert (foodealert.com):

- Designed an application to notify customers about the availability and location of food trucks.
- Features include customer subscriptions, business owner logins, and admin approval for new businesses.
- Focused on user-friendly notifications using email and SMS systems.
- Frontend built with **React**, backend powered by **Node.js**, database managed using **MonogoDb**, and deployed on **Render** with a custom domain via **Hostinger**.

SKILLS

- **Programming:** Java, C#, Python, .NET Framework, .NET Core
- **Web Technologies:** React, Next.js, JavaScript, TypeScript, jQuery, HTML5, CSS, XML, JSON, RESTful APIs
- **Database:** MongoDB, Google Firestore, MySQL, SQL Server (SSMS), Azure SQL
- **Cloud & DevOps:** Azure (App Services, Logic Apps, DevOps, Functions, Power Automate), AWS (SNS, CloudWatch, Lightsail), Docker, CI/CD Pipelines
- **Servers & Hosting:** Azure App Services, Amazon Lightsail, Render
- **Tools & Frameworks:** Git, GitHub, Bitbucket, Azure DevOps, Power BI, Bot Framework, Visual Studio, VS Code, Eclipse
- **Automation & AI:** Microsoft Bot Framework, LUIS (Language Understanding), Azure QnA Maker, Power Automate
- **Platforms:** Windows, Mac, Linux

EDUCATION

Master of Engineering, Computer Science (3.958 GPA)

May 2025

University of Cincinnati, College of Engineering and Applied Science, Cincinnati, Ohio

Coursework: Operating systems, Advanced algorithms, Cloud computing, Software quality testing...

Bachelor of Technology, Computer Science (3.8 GPA)

May 2022

Karunya Institute of Technology, Coimbatore, India

Coursework: Operating System, Data Structures, Software Engineering, Algorithms, Database theory, Software architecture...

CERTIFICATIONS

- **Agile Fundamentals and Azure DevOps for end user** – Skill Soft **2022**
- **SQL Certificate** – Coursera online certification from University of Michigan **2021**
- **Data Visualization** – GlobalShala certification from Saint louis university **2021**

COMMUNITY ENGAGEMENT

- Part time fitness trainer **2022**
- Nature club team member and lead, Karunya institute of technology **2019**