

Navya Anumolu

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SUMMARY

- Software engineer with 3+ years of experience specializing in the development of scalable and reliable backend systems. Strong background in data structures, algorithms, and cloud solutions. Adept in CI/CD practices, version control, and Agile methodologies, ensuring efficient project execution and high-quality software delivery.

EXPERIENCE

Texas Tech University

Texas, US

Graduate Teaching Assistant

August 2022 -Present

- Developed an educational platform for middle school students with **Angular** and **.NET Core**, incorporating interactive learning modules, engaging content, and user-friendly interfaces to foster an enhanced online learning experience.
- Seamlessly integrated lessons and assessments using **MySQL** and **RESTful API** services, following **Agile Methodology** streamlining content delivery and achieving a 40% reduction in grading time.
- Designed a user-friendly educational platform, utilizing **Angular**, **HTML**, **CSS**, **JavaScript** and intuitive **design patterns**, achieving a 60% increase in user retention.
- Executed a **CI/CD** pipeline with **Docker**, ensuring application consistency. Successfully deployed the system on **AWS**, enhancing efficiency and reliability.

PHILIPS

Bangalore, India

Software Engineer

June 2021 - July 2022

- Developed, tested, implemented, and maintained application software within all phases of the software development life cycle (**SDLC**).
- Engineered a secured role-based authentication system with **ASP.NET MVC**, and achieved distinct access levels for super admin, admin, and manager roles.
- Implemented client and server-side validation mechanisms using **JavaScript**, **jQuery**, and **ASP.NET validations** to ensure data integrity and reinforce the authentication system's security.
- Created **RESTFUL services** using **Web API**, built **HTTP** services and formatted responses using Web API media type formatter to **JSON**, ensuring efficient integration within the web application architecture.
- Utilized Stored Procedures, LINQ queries, ORM, and Entity Framework with **SQL Server**, optimized database relationships, and enhanced overall database performance by 40%. Conducted **code reviews** to ensure code quality.
- Leveraged **Git** for version control and deployed the application on **Azure**, utilizing services like Azure Virtual Machines for server hosting, Azure SQL Database for managed database services, and Azure Blob Storage for storing static assets.

TECHNICAL SKILLS

Programming Languages	Python, C#, C, C++, Java, JavaScript, TypeScript
Web Development Technologies	HTML5, CSS3, Bootstrap, React, Angular, jQuery.
Databases	MySQL, PostgreSQL, SQL Server, NO SQL, MongoDB
Frameworks	ASP.NET MVC, .NET CORE, Django, Flask
Technologies	Microservices, Azure, AWS, Git, Docker, Kubernetes
Certifications	Microsoft Azure AI Fundamentals, Python Certification by IBM

EDUCATION

Master of Science in Computer Science	August 2022- May 2024
Texas Tech University	GPA: 4.0/4.0
Bachelor of Technology in Computer Science	August 2017-May 2021
Sreenidhi Institute of Science and Technology	GPA:9/10

PROJECTS

Healthcare Chatbot Development with Reinforcement Learning Python| Reinforcement Learning

- Employed reinforcement learning algorithms, including Q-learning and Deep Q-Networks (DQN), to refine chatbot conversational capabilities, achieving a 25% increase in accurate query comprehension.
- Utilized **Python** libraries such as **TensorFlow** and **Scikit-learn** for the implementation and training of reinforcement learning models, optimizing performance and responsiveness.

Study Buddy Node.js| Express| React| SQL.

- Automatically generates groups using Node.js, Express, and SQL, optimizing student-teacher pairings based on academic needs and preferences.

Automated Robot for Early Pest Detection Image Processing| Machine Learning| Python| SQL|Aurdino

- Developed an Automated Robot for Early Pest Identification, integrating Convolutional Neural Networks and Thermal Image processing to enhance precision, optimize pest detection, and reduce pesticide usage through data-driven insights.
- Utilized image processing techniques for the analysis of thermal images, contributing to the early identification of pests