VAMSI KRISHNA YARRAGUNTA
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LinkedIn, GitHub

EDUCATION

The University of Texas at Dallas, USA — May 2024
Master of Science, Information Technology and Management — **GPA 3.7**
Dean's Excellence Scholar

Motilal Nehru National Institute of Technology, India — May 2020
Bachelor of Science, Information Technology — **GPA 3.5**

TECHNICAL SKILLS

Cloud Platforms: Microsoft Azure, Amazon Web Services, Databricks

Frameworks: Spring Boot, React, Angular, .NET Core, Django

Programming: C++, Python, SQL, Java, JavaScript, C#, TypeScript, NoSQL, Solidity, HTML, CSS

DBMS: Microsoft SQL Server, MySQL workbench, PostgreSQL, MongoDB

Coursework: Data Management, Object Oriented Programming in Python, Cloud Computing Fundamentals, AWS Cloud Solution Architecture, Data Structures, Analysis of Algorithms, Graph Theory & Combinatorics, Computer Organization, Automata Theory, Operating Systems, Database Management System, Object Oriented Modeling, Cryptography & Network Security, Computer Networks, Software Engineering, Data Mining, Distributed System, Wireless & Mobile Networks

EXPERIENCE

GEP Worldwide, Hyderabad, Telangana, India **|** *HTML, CSS, JavaScript, SQL, .NET Core, MongoDB, Angular* July 2020 – August 2022
Software Engineer

- Developed micro front-end architecture by implementing versatile and reusable Angular plugins for the contract's module. This resulted in a 40% reduction in the workload for other team members.
- Enhanced the contract creation page load time by 60% through code upgrades to .NET Core in a microservice-based environment. Implemented the repository pattern in C#, Angular, and Typescript.
- Improved data retrieval process by implementing .NET web APIs with Middleware. Additionally, migrated SQL data to Neo4j, resulting in a 50% reduction in API data retrieval time.
- Conducted unit testing of features using xUnit and Cypress.js frameworks to ensure high code quality and reliability.
- Optimized SQL database performance by fine-tuning stored procedures, triggers, and functions. Integrated a caching mechanism using Redis to improve performance for the live contract's engine.
- Worked in an agile environment following SCRUM methodologies and utilizing JIRA for project management and issue tracking.

PROJECTS

Movie Review App | *Spring, Java, React, JavaScript, MongoDB*

- Developed a robust web application using Spring framework and Java for the backend, React and JavaScript for the frontend, and MongoDB for the database.
- Implemented features that enable users to browse movies, view details, and write reviews for their favorite films.
- Leveraged Spring's powerful features such as dependency injection, MVC architecture, and RESTful APIs to create a scalable and maintainable backend.
- Utilized React and JavaScript to build a responsive and interactive user interface, allowing seamless navigation and dynamic updates.
- Leveraged MongoDB, a NoSQL database, to efficiently store and retrieve movie information and user reviews.
- Utilized version control and collaborative tools such as Git and GitHub for effective teamwork and code management.

Social Book| *Django, Python, JavaScript*

- Developed a highly responsive social media platform using Django framework and Python for the backend, and JavaScript for frontend interactivity.

- Leveraged Django's powerful ORM to efficiently manage and query user profiles, posts, and interactions.
- Utilized Django's authentication and authorization features to ensure secure access and protect user privacy.
- Employed responsive design principles and CSS frameworks to create a visually appealing and user-friendly interface across devices.

Real-time Chat Application | *Node.js, WebSocket's*

- Developed a real-time chat application using Node.js for the backend and WebSocket's for efficient bidirectional communication.
- Achieved impressive response times of under 500 ms, providing users with an instant messaging experience.
- Utilized WebSocket's to establish persistent connections between the client and server, enabling real-time message delivery and updates.

Object Detection in a Video | *Python*

- Improved object detection in videos by developing a Python model utilizing convolutional neural networks (CNN)
- Utilized deep learning frameworks such as TensorFlow or PyTorch to train and fine-tune the CNN model for object detection.

WhatsAI | *Python, Web3.js*

- Utilizes Python programming language and frameworks to provide remote control of a PC from anywhere in the world.
- Helps users stay organized with reminders and notifications.
- Enables quick retrieval of personal documents.

Medx | *Solidity, PHP*

- A revolutionary platform for easy storage and access of electronic medical records (EMR) using blockchain technology.
- Developed using Solidity, a smart contract programming language specifically designed for Ethereum.
- Using Web3.js, MedX enables users to securely manage their medical records and interact with smart contracts on the Ethereum blockchain.

HACKATHONS

Synd Innovate Hackathon | *Syndicate bank* October 2020

- Developed a voice-based transaction system to assist visually challenged people in their purchases.

Smart India Hackathon 2019 | *Ministry of Commerce and Industry, India* March 2019

- Idea shortlisted for the final round, where my team developed a one-stop solution for startups to submit and tracked grievances in different sectors to the industry departments.

LEADERSHIP EXPERIENCE

Club Member | *Institution of Engineering and Technology, MNNIT* May 2017 – July 2019

- Delivered weekly seminars on Data Structures, programming, and web technologies to juniors.

Volunteer | *National Service Scheme (NSS)* July 2016 – December 2016

- *Organized weekend cleanliness campaigns, blood donations and teaching students in rural villages*