Venkata Sai Krishna Akhil Bandi

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# PROFESSIONAL SUMMARY: Software Developer with 4 years of experience in designing and developing high-performance web applications using ASP.NET Core, MVC, and Entity Framework. Proficient in building RESTful APIs, optimizing database performance, and leveraging C#, Angular, and AWS to deliver scalable and robust solutions.

# TECHNICAL SKILLS:

**Programming Languages**: C#, Java, Python, C/C++, React.js, Angular, .NET Core, ASP.NET, JavaScript, HTML5, CSS

**Frameworks:** .NET Framework, Spring Boot, Node.js, NUnit, xUnit, NHibernate, JSON/XML

**Databases***:* MySQL, MSSQL, PostgreSQL, MongoDB

**Software’s and Tools***:* Git, GitHub Actions, Maven, Postman, Grafana, IntelliJ, VS Code, Visual Studio, Jira

**DevOps**: Docker, Kubernetes, Jenkins

**Cloud Technologies**: AWS Keyspaces, Lambda, EC2, S3, ECS, ECR, IAM Policy, Azure

**Others**: Data Structures & Algorithms, Design Patterns, OOD, OOPS Concepts

# PROFESSIONAL EXPERIENCE:

## Graduate Assistant – Technology Development, Texas Tech University, Texas August 2024 – Present

* **Developed and optimized** interactive web applications using **ASP.NET Core** and **C#**, enhancing performance by improving database query logic, reducing response times by 30%.
* Designed and implemented customized **Qualtrics survey solutions** using **JavaScript** and **HTML5**, enhancing user engagement and data accuracy.
* Automated survey data extraction and analysis using **Python** and **Pandas**, reducing manual data processing time by 40%.
* Troubleshot and resolved technical issues related to software applications, databases, and network connectivity using SQL and Python, reducing resolution time by 30%.
* Integrated version control systems such as Git and GitLab for collaborative development, ensuring smooth code management and version tracking.
* Created technical documentation, user guides, and progress reports to ensure effective communication and collaboration within the team.

## Officer 2, Alter Domus, India May 2023 – August 2023

* Developed and maintained enterprise-level applications using **.NET Core**, **C#**, and **SQL Server**, improving system performance by 20%.
* Designed RESTful APIs to facilitate seamless data exchange between internal systems and third-party services.
* Wrote comprehensive **unit test cases** using **xUnit** achieving 90% code coverage and ensuring application stability.
* Monitored application performance using **Grafana** and **Prometheus**, proactively identifying and resolving issues.
* Conducted code reviews and provided constructive feedback, fostering a culture of continuous improvement.
* Designed and implemented microservices architecture using .NET Core, enhancing scalability and maintainability of applications.
* Created automated build and deployment pipelines using CI/CD tools to streamline the release process for .NET applications.
* Transitioned to Alter Domus following the acquisition of Solvas product from Deloitte. Promoted from Officer - 1 to Officer - 2 due to high quality performance.

## Associate Software Engineer, Deloitte, India July 2021 – May 2023

* Contributed to the development of **Solvas Digitize**, a financial data automation platform, leveraging **ASP.NET Core**, **C#**, and **SQL Server** to build scalable web applications.
* Developed and delivered more than 30 dynamic, interactive UI components using **JavaScript**, **HTML5**, and **CSS3** in each sprint, ensuring responsive designs and enhanced user experience to meet evolving client requirements.
* Developed and optimized complex **SQL queries** to manage large financial datasets, improving query performance by **25%** through efficient indexing and query refactoring.
* Implemented **CI/CD pipelines** using **Azure DevOps**, automating build, test, and deployment processes, reducing deployment time by **40%** and ensuring seamless delivery of new features in each sprint.
* Contributed to the design and implementation of modular, scalable components in **Figma**, ensuring seamless design-to-development transitions and improving overall workflow efficiency.
* Collaborated with QA teams to ensure rigorous testing and quality assurance of deployed applications.
* Maintained and updated code repositories in Git, facilitating seamless collaboration and code integration across multiple team members.

## Technology Intern, Deloitte, India February 2021 – April 2021

* Collaborated with senior developers to design and develop new features for internal web applications using **ASP.NET Core**, **C#**, and **JavaScript**, contributing to a **15%** improvement in application performance.
* Assisted in creating detailed **technical documentation**, including API reference guides, data flow diagrams, and system architecture documentation, improving knowledge transfer and onboarding efficiency for new team members.
* I possess a strong understanding of front-end development tools such as SASS/LESS and Webpack, utilizing them to develop responsive, scalable, and optimized user interfaces.
* Participated in **code reviews**, gaining insights from experienced developers to improve code quality through best practices. Actively contributed to **Agile ceremonies**, including sprint planning and daily stand-ups, fostering collaboration and ensuring timely project delivery.

# EDUCATION:

## Texas Tech University, Lubbock, Texas May 2025

Master of Science: Computer Science (CS) GPA: 3.90/4.0

## Osmania University, Hyderabad, India July 2021

Bachelor of Technology: Computer Science and Engineering (CSE) GPA: 3.23/4.0

# PROJECTS:

## Intelligent Personal Assistant

## Tech Stack: *Django, GPT-4, REST, PostgreSQL, Docker, Kubernetes, AWS*

* Intelligent Assistant providing context aware responses via OpenAI GPT-4 with data integrated from multiple sources.
* Modeled an interactive learning module with quizzes and spaced repetition algorithms.

## Online Learning Platform Project

## Tech Stack: *React, JavaScript, HTML, CSS, .NET Core, C#, SQL, Git*

* Developed a fully functional online learning platform allowing users to enroll in courses, track progress, and engage with instructors.
* Utilized React for the frontend, enabling a dynamic and responsive user interface. Implemented a .NET Core backend to handle user authentication, course management, and data storage.
* Leveraged Drupal CMS for efficient management of content such as course modules, quizzes, and educational resources. Designed RESTful APIs for seamless communication between the frontend and backend.

## Abusive Language Detection

## Tech Stack: *Python, Natural Language Processing, PyTorch, CNN, RNN*

* The primary goal of this project was to detect and classify abusive or offensive language, including hate speech, in text data. This involved creating a model capable of distinguishing between direct hate speech and sarcasm, a challenging task in NLP due to the subtle nuances in language.
* CNN and RNN to find hate speech in text. 95% detection of direct hate and 70% in sarcasm.

## Machine Learning Project

## *Won in IEEE Hackathon for developing 2 algorithms in 24 Hours*

* Credit Card Credibility and Net Power Output Prediction for a Thermal Power Plant.
* Developed a machine learning model to predict the credibility of credit card applicants based on various features such as income, credit history, and current debts.
* Built a regression model to predict the net power output of a thermal power plant based on variables like fuel input, temperature, pressure, and operational settings.

# CERTIFICATIONS:

* AWS Certified Developer Associate (DVA-C02)
* ELITE Certificate in Programming in Java from IIT Kharagpur through NPTEL.
* Machine Learning Certification by Stanford University on Coursera.