CHARAN TEJ KOTRAKONA

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San Bernardino, California, USA.

SUMMARY

A skilled computer engineer with extensive experience in .NET development and SQL database management, proficient in designing developing and maintaining robust data-driven applications using ASP.NET and SQL server, demonstrating strong analytical and problem-solving abilities. Intently searching for full-time or internship positions that will let me use my abilities and experience.

EDUCATION

California State University- San Bernardino, CA — May 2025

Master of Science – Computer Science — GPA:3.4

COURSEWORK

Machine Learning	Cloud Computing
Operating Systems	Software Engineering
Theory of Algorithms	

SKILLS

Programming Languages: C, SQL, HTML/CSS, C#

Frameworks: .NET Framework, ASP.NET, Angular, Java Script

Tools: Git, SQL Server Management Studio (SSMS), MS Word, Power point, Excel

Databases: MySQL, SQL Server, T-SQL

Soft Skills: Team collaboration, Time Management, Effective Communication, Quick Learner

WORK EXPERIENCE

COFORGE Ltd | Graduate Engineer Trainee   **Greater Noida, Uttar Pradesh**   **June 2022-June2023**

Role: Duck Creek Developer

- Utilized Duck Creek policy, Billing and Claims modules, .NET, SQL Server, Duck Creek author and Git for development.
- Developed and Customized insurance policies using Duck Creek policy.
- Implemented billing and claims modules, ensuring seamless of policy definitions.
- Utilized Duck Creek Author for configuration and maintenance of product definitions.
- Collaborated with business analysts to gather requirements and deliver solutions.
- Provided technical support and troubleshooting for Duck Creek applications.

PROJECTS

Hand Gesture Controlled Virtual Mouse System – Machine Learning and Computer Vision, MediaPipe, OpenCV, Python, Infrared Sensors

- The main goal is to create a touchless interface that allows users to control computer functions through intuitive hand gestures, enhancing accessibility.
- Technologies used include OpenCV, MediaPipe, TensorFlow, Python, webcams, and depth sensors for real-time hand gesture recognition and virtual mouse control.
- Designed algorithms for hand tracking and gesture recognition, developed real-time image processing, built a customizable interface, ensured cross-platform compatibility.
- Functionalities include real-time hand tracking, gesture recognition, virtual mouse control, customization, visual feedback, system integration, calibration, and error handling for accuracy.
- Enhanced user experience with touchless interaction, improved accessibility, reduced physical contact, and demonstrated significant usability for individuals with mobility impairments.
- Improved accessibility and user interaction with touchless control.
- Elder people and persons with disabilities can use a virtual mouse to control computer.

Mobile App Development (Dog Math)

- Developed a mobile application, **Dog Math**, designed to enhance arithmetic skills for users of all ages through engaging and interactive math games.
- Implemented intuitive user interfaces and game mechanics, focusing on improving learning outcomes in a fun, gamified environment.
- Optimized app performance and ensured compatibility across multiple mobile platforms.

CERTIFICATIONS

- IIT Madras certified Python for Data Science
- AWS certified Cloud Practitioner
- CSC certified ADJP (C, C++, JAVA)