JUSTIN.M

CONTACT

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SKILLS

Domains
Medical Devices (Ultrasound)

Languages
C , C++ , Python

CPP Specific Skills
MFC, OpenGL,OpenCV,Threading

Build Tools/Compilation Tools
VC++ Compiler

IDE
Visual Studio, Visual studio code ,Pycharm

Version Control Systems
Clear Case, SVN

Designing Tools
Astah, Xmind

Memory/Bug Analysis Tools
Visual Studio Native Diagnostic Tool, Debug View

Operating Systems
Windows, Linux

PROFILE SUMMARY

● Over 2 years of substantial expertise in healthcare domain development, specializing in solutions for reputed Japanese medical firm, showcasing a proven track record of delivering high-quality software solutions.

● Proficient in C++, Microsoft Foundation Classes (MFC), OpenGL classes, and Windows SDK, with a focus on creating robust applications that align with industry standards and client specifications.

● Demonstrated proficiency in object-oriented design methodology, leveraging a strong foundation to architect scalable and maintainable software solutions.

● Extensive hands-on experience in the entire software development life cycle, encompassing development, thorough testing, and meticulous documentation processes.

● Notably, contributed to the advancement of cutting-edge technology within the healthcare sector, particularly for reputed Japanese medical firm, reinforcing a commitment to excellence in developing innovative and impactful software solutions.

PROFESSIONAL EXPERIENCE

● **Quest Global Pvt. Ltd**
Software Engineer
December 2021 - Present | Trivandrum

Responsibilities:

○ Engaged in the development and testing of both new and existing features for the UltraSound Scanning machine manufactured by reputed Japanese medical firm.

○ Conducted code analysis to ensure code quality and adherence to established standards.

○ Successfully devised and implemented new features and algorithms to enhance the Image display functionality.

○ Executed the migration of various features and functionalities from one version of the Ultrasound main system to another.

○ Contributed to stability testing procedures for the UltraSound Machine to ensure optimal performance.

○ Actively participated in the coding, testing, and documentation phases of major software components, adhering to a standardized development process.

● **Inferigence quotient LLP**
Computer vision intern
Febraury 2021-july 2021 | Bangalore

Responsibilities:

○ Worked with object detection for extracting title blocks from architectural pdf's

○ Pose quality analysis using pose detection model and OAK-D

○ NLP module using "spacy" for english sentence detection and reducing search space

○ Worked with openCV's feature detectors (orb and surf) for image segragation

PROJECTS

● **Developed real-time traceline creation for auto volume measurement**
- Environment : Visual C++, OOP, Windows 10

○ In the existing system it displays cavities in the uterus as white tracelines on a 2D plane. Incorporated a dynamic feature: when the mouse is in proximity to a follicle, a small green traceline is drawn, and its length increases as the cursor moves away from the follicle. The traceline length adjusts based on the cursor's position for enhanced user interaction.

EDUCATION

Bachelor of technology in Computer Science & Engineering , CGPA - 6.9/10

College Of Engineering Chengannur
APJ Abdul Kalam Kerala Technological University

📅 2015-2019   📍 Chengannur

INTEREST

Numismatics   Body Building

- **Enhanced Auto Flexible Cutline Algorithm:**
  - Environment : Visual C++, OOP, Windows 10
- Implemented a distance-based solution to optimize the cutline algorithm for an existing product. Identified and addressed a market issue where cutlines varied for baby faces under different filters. Resolved the issue by unifying voxel data for consistent cutline generation across all filters.
- **Implemented a new module named "WCT Analyzer"**
  - Environment : Visual C++, OOP, Windows 10
- To facilitate wait chain traversal throughout the entire product. This functionality aims to analyze the application state, particularly in identifying potential deadlock scenarios.
- **Bugfixes :**
  - Environment : Visual C++, OOP, Windows 10
- Analyzed and rectified numerous bugs and issues within the Windows application enviornment encompassing aspects such as threads, memory, and algorithms

ROLES AND ACHIEVEMENTS

- Successfully managed team events, including team tours, and led team in organizing various corporate events.
- Adheres rigorously to coding standards and best practices.
- Proficient in debugging and troubleshooting software issues, consistently delivering timely resolutions.
- Recognized with the On The Fly Award (Quest Performer of the Month Award) 2023.
- Received commendation emails from both clients and management.
- Mentored new team members, effectively preparing them to become productive in a shorter timeframe.