GOVARTHANAN VASUDEVAN

APPLICATION PROGRAMMER

An application programmer having eight years of experience in distributed architecture and graphics programming. Problem solver, can-do attitude and individual contributor.

EXPERIENCES

Present May-2018

Senior Software Engineer

Trimble Information Technologies

♥ Chennai

- Design and Develop features for Trimble Earthwork's Control system
- Primary role involves implementing graphics feature using OpenGL in android client as well as in server written in C++

May-2018 • Aug-2014

Senior Software Engineer

Bally Technology(Scientific Games)

♥ Bangalore

- · Designed and Developed new digital signage application with Google cloud technologies
- Owner of media player module of Bally's CoolSign digital signage application

Aug-2014 July-2011

Software Engineer

Tata Elxsi & Sony India(as a consultant)

♥ Bangalore

 Involved in the development of sample applications and validate APIs functionalities for PlayStation 4 graphics libraries



SELECTED PROJECTS

Present 2018

Trimble Earthworks

Trimble Technologies

- · Project Description: The Trimble Earthworks Grade Control System is Trimble's next-generation grade control platform for excavators, dozers and mining machines. Reengineered from the ground up, the Trimble Earthworks Grade Control System features intuitive, easy-to-learn software that runs on an Android operating system.
- Technology and Language used: C++11, C++14, Google Protocol Buffer and FlatBuffers, Android OS, OpenGL ES3.0
- AR Camera: Task involves calibrating physical camera using OpenCV and reconstructing 3D perspective view on top the camera feed to get the augmaneted reality feel. Also implemented functionalities to handle communication between android client and the camera to get/set specific parameters based on camera's spec-
- Level and Slope design: Developed features to allow operator to create simple level and slope design dynamically on the field/site. The task involved analyzing and incorporating changes in the existing module of the server and visualize corresponding surface with respect to machine position in android client using OpenGL.
- Developed feature to calibrate cab rotation sensor(gives current heading information) and it involves instructing operator to perform appropriate step based on device instructions received through CAN protocol and communicating device to move on to next stage
- Dig and Dump identification: Designed and developed dig and dump identification feature for large wheel loader and front shovel based on few rules such as bucket, stick angle and machine movements.

2018 2016

SG Live Media

Bally Technologies(Scientific Games)

- Project Description: The main aim of this project is to design and develop cloud based digital signage product for casino industry by utilizing Google App engine cloud service and chrome APP as client
- Complete software design and development responsibility of SG Live media and its components such as server hosted in GAE and client app in chrome box
- Release 1: Designed and developed common media player for both content creator and chrome app player. Used WebGL to render the content(combination of image, video and text).
- Finalized to use Django server framework as it comes with default admin site
- Finalized to use Firabase API to create communication between server and client
- Release 2: Delivered lot of custom features specific to casino industry such as progressive font meter, live text ...etc

2018 2014

CoolSign

Bally Technologies (Scientific Games)

- Project Description: CoolSign is one of the best digital signage product in casino industry. Aim of this project is to provide best experience for customer through digital signage.
- · Complete Software development and maintenance responsibility for CoolSign's proprietary Media Plaver
- Developed new feature called Font Meter. Font meter will be used to display progressive or jackpot value whenever multiple customer are playing a game on slot machine. This feature will save content

CONTACT INFO

gova.intec@gmail.com

in http://bit.ly/313Dt9B

github.com/GovanGova

\(+91 9886269355

SKILLS

GRAPHICS LIBRARY

OpenGL 3.3 OpenGL ES 3.0 WebGI 2.0, HTML5 Canvas Sony Proprietary Libraries (libgnm, libgnmx)

LANGUAGES

C, C++11HTMI 5 Java script(ECMA6.0) Python(moderate) Go(beginner)

PLATFORMS

Windows, Linux Android - GLSurfaceView. Knowledge about Activity life cycle Android-ndk

CLOUD PLATFORM

Google App Engine Google Cloud Storage Google Cloud SQL Firebase API Django Framework

OTHERS

Google Protobuff Google Test(gTest) Git, VS2017, Jira and Jenkins developer time since the images required for meter is directly loaded from selected font file(TTF).

• Developed Asset locking feature to lock the prepared asset in Content creator tool. Once an asset is locked, then it cannot be edited till user unlock the asset.

GOVARTHANAN VASUDEVAN

APPLICATION PROGRAMMER

SELECTED PROJECTS

2014 | 2012

PlayStation 4

Sony India(as a consultant from Tata Elxsi)

- Designed and implemented sample applications to test various feature offered in libgnm and libgnmx
- Here learnt lot of techniques such as compute, tessellation and geometry shader Post processing techniques Instancing Drawing of many instance of same polygon



EDUCATION

2007 | 2011 **B.Tech in Information Technology** Anna University(Mailam Engineering College)

First class with distinction - 80%

2005 | 2007 **Higher Secondary Education**

Govt. Higher Secondary School Stood first in the school with 89.3% 🕈 Panamalai Pettai, Villupuram, TN

2004 | 2005 SSLC

Govt. Higher Secondary School Stood first in the school with 89.3% 🕈 Panamalai Pettai, Villupuram, TN

HOBBIES

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• Listening to music