

GOVARTHANAN VASUDEVAN

APPLICATION PROGRAMMER

An application programmer having eight years of experience in distributed architecture and graphics programming. Problem solver, smart 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
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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
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July-2011
- Software Engineer**
Tata Elxsi & Sony India(as a consultant) Bangalore
- Involved in the development of sample applications for PlayStation 4

SELECTED PROJECTS

- Present
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2018
- Trimble Earthworks**
Trimble Technologies
- Project Description: The Trimble Earthworks Grade Control System is Trimble's next-generation grade control platform for excavators and dozers. Reengineered from the ground up, the Trimble Earthworks Grade Control System features intuitive, easy-to-learn software that runs on an Android operating system.
 - Developed feature to calibrate cab rotation sensors(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.
 - Dynamically constructed and displayed swing boom model for swing boom excavator machine in android client
- 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. 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 Firebase 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
|
2016
- 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 Player
 - 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 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.
- 2014
|
2012
- PlayStation 4**
Sony India(as a consultant from Tata Elxsi)
- Designed and implemented sample applications to test various feature offered in libgdm and libgdmx
 - Here learnt lot of techniques such as compute, tessellation and geometry shader Post processing techniques Instancing - Drawing of many instance of same polygon

CONTACT INFO

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SKILLS

GRAPHICS LIBRARY

OpenGL 3.3
OpenGL ES 3.0
WebGL 2.0, HTML5 Canvas
Sony Proprietary Libraries
(libgdm, libgdmx)

LANGUAGES

C, C++11
HTML5
Java script(ECMA6.0)
Python(moderate)

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 Protobuf



EDUCATION

2007
|
2011

B.Tech in Information Technology
Annan University(Mailam Engineering College)
First class with distinction - 80%

📍 Mailam, Tamilnadu

2005
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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