

ARYA RAMESH

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Augmented Reality, Virtual Reality and Mixed Reality Developer

SUMMARY

- Passionate towards recent development in innovations with sound knowledge of various fields such as Augmented Reality, Virtual Reality, Mixed Reality, IoT, Embedded, Programming.
- Skilled in a large range of programming languages with a proven ability to adapt quickly to any new languages.
- A clear understanding of the software development cycle with a willingness to work beyond normal hours to achieve milestone objectives.
- Ability to work well and take direction from leads and interact with team member of all disciplines.
- Extremely team oriented and motivated individual.
- Excellent communication skills, with ability to communicate complex concepts in a simple way.
- A keen interest in augmented reality, virtual reality and mixed reality and gaming, having created many genres of AR VR MR Projects for both personal interest and professional development.
- Has the potential to manage and lead a team.
- Ability to present and communicate the idea and explain the needful of the concept to client in clear and precise way.
- Have Schengen visa and Malaysia visa.

TECHNICAL SKILLS

Hardware	Microsoft HoloLens, ODG R7, Epson BT 300, Real Wear, Oculus Rift, HTC Vive, VR One Plus
Software	3D Modelling: Blender, sap visual enterprise author. Operating System: Windows, Linux. MatLab. VHDL: Xilinx ISE 9.2i, Model Sim XE6.1E
Platform	Unity 3D, Unreal Engine, Amazon Sumerian, Verge 3D, PTC Vuforia Studio.
Languages	Proficiency in a board range of programming languages C#, C , Core Java, Python, Java Script, SQL, HTML, embedded C, VHDL.
Framework	Experience with a wide range of frame work HoloToolKit, Java, Vuforia, AR Toolkit, AR Core, OpenVR, Android, Oculus Rift, SteamVR, MatrikonOPC, KepwareOPC, IBM Watson, Google Cardboard SDK, OpenXR, C#.Net, Mobile application development.

TECHNICAL EXPERIENCE

2017-2019: Tata Consultancy Services (TCS), Centre of Excellence, Bangalore, India.

Systems Engineer

Achievements:

- Chillier Application: Mixed reality application in Microsoft HoloLens to assist field engineer in chillier plant to identify the chillier and fetch real time data, maintenance schedule, related documents, order inventory and remote assistant, etc.

- BioFermenter Application: Mixed reality application to assist engineers for remote assistance and maintenance schedule.
- DuPont Application: Augmented reality application in android tablet to monitor the real time working parameters of industrial equipment with maintenance details and other supporting documents.
- Altis Application: WebGL application for remote assistant to assist the customer with relevant real time data.
- Nissan Application: Augmented Reality digital catalogue on android device.
- Pepsi Co: Assisted Reality application on Real Wear. This application is build on PTC vuforia studio in connection with PTC thingWorks and PTC thingSpeak. Real time monitoring of industrial equipments and packaging and other sections in the Pepsi Co industry.
- Lenovo SDK Development: Act as a team member for the development of Lenovo AR glass SDK.
- Petroleum Project: Virtual Reality application developed in Oculus Rift. The application connects with MatrikonOPC server and communicates the real time flow of oil through each valve in the rig. It also enable a safety measures and on board operator interaction with the field operator.
- Rolls Royce Project: Aero engine maintenance training virtual reality application build on oculus rift. This application helps the engineer to do maintenance activity on the flight with real time IoT data fetching from cloud, supporting documents and connect with inventory. In build virtual assistance and voice enabled.
- Ship Engine Room Maintenance Application: The user can check the status and parameters of various components inside a virtual ship engine room. The live IoT data fetching from cloud.
- H&M online virtual reality shopping: As like normal online shopping user can get into virtual reality and shop according to their likes.
- H&M Manager Application: Virtual reality application for manager to customise the store before the seasonal change. It also enables the manger and other designers to do design review.

- DNA testing Lab: Developed the virtual reality DNA testing lab on Oculus rift allowing leaning to perform operations and handling on various devices like DNA synthesizer for client.
- Created various AR, VR and MR applications for clients showcasing various devices, products from engineering, chemical as well as insurance industry, allowing user to scan patterns, projects, interact and get details of models at component level.

Responsibilities

- Act as a team lead for most of the client projects.
- Used to Participated in client meeting as a marketing person or as a subject matter expert for project discussion or to discuss about the capabilities of AR, VR, MR in industry 4.0 within India and abroad.
- Developed AR VR MR application for various clients like Rolls Royce, Lenovo, General Electronics, Danaher, Siemens, H&M, British Petroleum, Shell, Qiagen, Pepsi Co, etc.
- Act as an efficient team member in few projects.

ACADEMIC PROJECT

1. ATM Crime Prevention System

- Project support for the ATM physical crime prevention system.
- It makes use of different sensors to detect the physical destruction of the ATM by any modes.
- As the system identify the theft it send alert message to nearby police station and bank concern.
- To preserve evidence the ATM installed room will be locked automatically, live audio and video will be uploaded into IoT cloud and a small amount of anaesthesias gas will be released so as to make sure that thief is capture within the room.
- It also provide alert to public.
- The ATM installed room will be unlocked with security password or an OTP send to the concern bag manager.
- PIC, Mems sensor, Raspberry Pi are the main components used.

2. Listen Privately To TV Audio Wirelessly Over FM Band

- It is an application listens to Television audio privately.
 - It is a wireless application which works with FM Band.
 - The receiving device can be any device which can connect with FM radio and has got headphone provision.
 - This application can be further enhanced with other features like changing the channel, feature settings.
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PERSONAL PROJECTS

1. Virtual Assistant in Amazon Sumerian

- Using Amazon Sumerian made a virtual assistant
- It also incorporates Amazon Lex and Poly.
- The application helps for industrial purpose.

2. Application using Verge 3D

- This application shows the enhanced capability of blender with verge 3D.
- Build an application for virtual reality, augmented reality and for WebGL.
- Created model in blender and animated according to the needful.
- Control and other functionalities are done through verge 3D application manager.

3. E- learner

- Augmented reality digital E- learner.
- Created an augmented reality digital book with reference with a fifth grade science text book.

ACADEMIC QUALIFICATION

- **2016:** B. Tech in Electronics and Communication Engineering from Vidya Academy of Science and Technology under University of Calicut. Scored 83%.
 - **2012:** +2 in Computer Science from Don Bosco Higher secondary School, Irinjalakuda, Kerala. Scored 96%.
 - **2010:** SSLC from Don Bosco Higher secondary School, Irinjalakuda, Kerala. Scored 86%.
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AWARDS

- Technical Excellent Award from TCS.
 - On The Spot Award from TCS.
 - Best Mentor from Science Academy tutorial college.
 - Best student 2012, 2009 award from Don Bosco Higher Secondary School.
 - Best House Caption 2008, 2009, 2012.
 - Assistant School leader.
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SEMINAR/ARTICLE/ACTIVITIES

- Participated in MatLab Expo 2019- Bangalore.
- Participated in Autodesk Expo 2018- Bangalore.
- Submitted a white paper on augmented reality, virtual reality and mixed reality in next generation.
- Successfully completed Java and J2EE.
- Participated in Symposium on Redhat Server 7.2 by Redhat Inc
- Participated in Project Expo in Castalia organized by ISTE, IE(I) & IEEE – VAST.
- Attended aptitude and management training program conducted by Triumphant Institute of Management Education Pvt. Ltd
- Attended workshop on PCB Designing and Aurdino.

- Successfully completed workshop on ORCAD and LOGIC FAMILY.
- Participated in all Kerala Don Bosco school leadership training program.

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