

SHASHI SHIVARAJ

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PROFESSIONAL EXPERIENCE

MICROSOFT CORPORATION
Software Engineer

Redmond, WA
Aug 2021 – Present

Windows Bluetooth Audio

- Member of Bluetooth Audio team involved in development and support of Bluetooth Audio (LE & BR) for Windows OS.
- Implemented TMAP: Telephony and Media Audio Profile Bluetooth LE profile.
- Added telemetry support to BLE Audio services to track their adoption and usage in Windows devices.
- Technologies: C++, Windows drivers, Bluetooth .

HR Experiences

- Enhancing the features of Microsoft's AskHR Virtual Assistant and related HR service center products.
- Implemented a feature to retrieve the current compa ratio of the user via bot conversation.
- Technologies: C#, REST services, React, PVA, Azure.

CERNER CORPORATION
Software Engineer

Kansas City, MO
Aug 2019 – July 2021

Order Management Solution

- Member of Orders clinical concept team working on implementing web services to support Order management solutions in Cerner's electronic health record platform Millennium.
- Involved in feature development and support of web services used by Power Chart solution.
- Technologies: Java, REST services, EJS server, Oracle SQL, JPA.

CAPGEMINI ENGINEERING (FORMERLY ARICENT TECHNOLOGIES)
Software Engineer

Bangalore, India
Jan 2014 – July 2017

VoLTE and RCS Solution

- Worked on developing Media Engine used in VoLTE IMS (IP Media Subsystem) solution compliant to GSMA IR-94 specs.
- Integrated HEVC software codec and developed RTP stack according to RFC7798 for HEVC data.
- Integrated the WebRTC-AEC module with the Media Engine to reduce the effect of echo on speech quality of VOIP call.
- Implemented a feature to set the Differentiated Services Code Point (DSCP) in the IP header of the outgoing RTP packets.
- Involved in implementation of dynamic reconfiguration of OMX AVC decoder according to OMX IL Specification.
- Involved in implementation of support for CVO feature in video calling.
- Technologies: C++, C, Socket Programming, Multithreading, Android NDK, RTP/ RTCP and AV Codec.

CLEMSON UNIVERSITY
Graduate Research Assistant

Clemson, SC
May 2018 – Sep 2018

Bite Counter WearOS Watch App

- Developed an application for Android's WearOS which utilizes Android's NDK API to capture watch's gyroscope data and determines the bite count during a meal to monitor the food intake of the user.
- Implemented a client which sends the session data from the watch to a remote server using HTTP protocol if connected to network or forwards the session data to a mobile Android device using Bluetooth protocol.
- Developed a companion app for mobile Android device, which utilizes Bluetooth to receive data from the WearOS App and sends it to a remote server using HTTP protocol.
- Technologies: C++, Java, Android NDK, Wear OS, HTTP protocol, Bluetooth, Socket Programming.

TECHNICAL SKILLS

- Language: C++, C, JAVA, C#
- Platforms: Linux, Android, Windows, Azure
- Version Control Tool: GIT, Tortoise CVS
- Defect Tracking Tool: JIRA, Bugzilla, IBM Rational Clear Quest
- Network Protocols: RTP & RTCP (RFC 3550)

EDUCATION

CLEMSON UNIVERSITY
Master of Science in Computer Engineering

Clemson, SC
May 2019
GPA: 4.0/4.0

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
Bachelor of Engineering in Electronics and Communication

Bangalore, India
May 2013