Thiru Voonna
Work experience Summary (Scaled Agile Architect & Program Consultant, Product Manager, Software Architect, Tech Lead, Senior Developer)

- 22+ years of software industry experience in Designing and Developing Mobile Telecommunications solutions, enterprise backend Solutions Architecture and API Gateways
- 10+ years of Product Manager experience
- 6 years of SAFe Scaled Agile Transformation Experience
- 5 years in CI/CD/DevSecOps tools and Agile/ScrumXP methodologies
- 3 years of Forensic Analysis experience on Android and iOS operating systems
- 4 years of experience as Android Technical Lead, Lead the first Verizon Android Tablet team.
- Solid understanding of RTOS, microprocessor architecture, 5G, LTE, CDMA, USB, GPS technologies
- Specialized in Architecting UI Platforms, UX designer tools, Communication Frameworks for developing mobile platforms
- Proven ability to direct, mentor, leads by example and provide technical leadership
- Set the highest standards in the telecommunication industry for innovative declarative application development
- Led GUI Platform Technologies innovations
- Programming experience in C, C++, Java, Python, Lua
- Solid understanding of Text Mining Techniques and Tools
- 7 Patents Received, 2 GenAI Patent application is in progress

Services & Recognitions
- Verizon's GenAI Prompt Engineering Ambassador
- Program Lead the Verizon enterprise wide GenAI hackathon 2024
- Verizon GenAI Elevate 2024 Program Trainer & Coach
- Mentor of Highschool FTC Robotics team qualified for World Championship 2024
- Lead Mentor for the Verizon's Voice of Customer (VOC) 2023 Internship Project
- Guinness book of World Record Holding Participant for 2021 Virtual VEX Robotics Competition
- Coached VEX Robotics for over 25 teams, represented at World's Championship last 3 years
- Community Change Agent from Leadership Somerset 2021 program
- Verizon SPICE VEXIQ, BoeBot Robotics Camp at TEECS charter school in Somerset NJ
- Volunteer and mentor for aspiring students at CUNY University, Columbia University- EQUALs, GSMA, NAF, WitNY schools, NorthSouth Foundation (NSF)
- HOA Community board member
- Teach kids AP Computer Science, SAT-English, AI/ML, VEX VR, Roblox, MIT ScratchJR and MIT Scratch programming

Credentials
- Google Cloud GenAI Learning Pathway 2024
- Certified SAFe Practice Consultant (SPC6), Architect, RTE, SM, POPM, SA
- Certified Scrum Alliance Certified Scrum Master, Product Owner
- Certified VLSS (Verizon Lean SixSigma) Black Belt
- MBA from Strayer University (November' 2017)
- Bachelor of Science (BS) in Computer Science & Engineering
- AWS SysOps, SecOps, DevOps, Openstack, SDN, NFV, Cloud Computing

June'15 – Present: NS Transformation Team, Verizon Wireless, Branchburg, NJ, PMTS

- Program Lead the Verizon Enterprise wide cross CIO GenAI hackathon 2024
- Patent Applications - Method or Apparatus for Measuring Hallucination
- Product Manager for GenAI Self Service ChatBot (ChatSPC) for Scaled Agile Framework
- Proxy Product Owner for Check Network Status (CNS) Solution
- Scaled Agile Architect and Practice Consultant - Launched 8 ARTs, 30+ PI Planning Events, Trained and Coached teams. Trained in SAFe ARCH, SM, POPM, RTE, Leading SAFe Courses
- Solution Architect for DevSecOps pipeline, Kafka Messaging Bus, Tasking and Workflow framework
- Solution Architect for the enterprise API Management/Gateway solution for VCP/Corona based application's web services (REST/SOAP)/micro services/serverless services
- Performed vendor evaluation and RFI/RFP for API Management/Gateway solutions (WSO2, Apigee, CA, IBM, Backendless, Anypresence, Mulesoft, etc.)
- Solution Architect for the Device Lab automation system (VLMS), leading team of NSSi developers to execute the application development and infrastructure management
- Solution Planner for Device Applications (i.e. DMAT) and Device based BigData projects (NSS Data Lake, CEM, Labyrinth etc.)
- Helped support application development teams transition to DevOps/Agile tools and methodologies and produced knowledge base articles
- Patents Received : #20151190, # 20151313

September'11 – May'15: SCM-DQ, Verizon Wireless, Basking Ridge, NJ - **Sr. Software Engineer for Forensic Analysis on Android and iOS OS**

- Product Manager for MVD Active app (Trade-in , CLNR, CRTC) for Android, iOS, Windows platform deployed in Verizon stores which saved Verizon over 50 million dollars and received 4 continuous SCM town hall recognitions.
- Product Manager of display characterization solution using Radiant Vision Systems TrueTest which detects 33% more display defects (Color/Edge/Line murra, Particle/Line defects) on NTF devices that reported as display issue
- Product Manager for MVD solution for iOS Devices which is deployed to January 19th 2014 to Enterprise & Core member of MVD Android team
- Tech Lead for Project Insight (SCM Dashboard Platform) running IBM Insight, Cognos, Oracle, Office365, SPSS, Tableau
- Tech Lead for couple of BigData initiatives based on the Appache Hadoop, HiveQL, HBase, Pig/Piglets, SPSS, Tableau
- Lead Cellebrite R&D to develop Android/iOS based Automated Factory Test & Battery Capacity test
- Architected Accelerated Life Stress Software for Android Devices and developed by Teleca
- Developed Battery Gauge Tool for providing the customer battery guidance
- Developed Sensors, Network, Battery, Connection, Performance monitoring Android applications
- Developed WIFI Tester, Battery Stress Test & Capacity Monitoring Application for iOS
- Deployed Android bugreport log analysis tool to quickly analyze Android crash logs
- Developed NLTK based Text Analytics mythologies to analyze text
- Deployed IBM ICA and SPSS Text Mining Software for Customer Remarks Analysis
- Deployed Splunk & Altova MapForce FlexText tools for iOS and Android logs analysis
- Developed scripts to automatically record & inject touch and key input to Android Devices
- Developing a tool to fetch iOS diagnostics from iOS devices through GSX interface
- Received awards in 4 town hall meetings
- Patents Received: 20130791 (P7400US00) , 20130736 (VRZ-319US), 20150229

Feb'03 – August'11: SAMSUNG Mobile, Bridgewater, NJ

- Sr Product Manager for Verizon Galaxy Tablet (7") and Verizon Galaxy Tablet (10.1")
- Led the Horizontal app development (Android UX and TouchWiz UX): Email (ActiveSync, IMAP, POP3), Prepay/Pay As You Go (3G/4G) , Setup Wizard, Custom Launcher etc. ([Patent: US 2011/0276924 A1](#))
- Led the Vertical app development: VZW LBS stack (supports MSA, MSB, Standalone), Skype integration of Voice and Video hosts, Backup Assistant, Blockbuster WMDRM integration, etc.
- Collaborate regularly with technical marketing, user experience teams, and Verizon in defining technical requirements and refining applications and end-user experience.
- Understands the Verizon product development process, Verizon HUX development process, LTE, CDMA technologies
- Led the test automation team to develop extensions to Android CTS for Verizon requirements and application monkey scripts for running various application automation test cases.
- Led the design and development of Verizon connectivity requirements for Android, BREW devices
- Collaborated with multiple domestic and internationally based teams that contributed to the development effort.
- Architected Verizon connectivity requirements on Android devices by providing interfaces to WMC/VZAccess Manager, OMA-DM, PST Clients
- Led 11 initiatives to improve development process and internal/external communications.

- Architect and Tech lead of Rich User Interface Designer for Samsung Mobile Platform
  - Innovated declarative UI Tools for mobile application development
  - Defined application development tool chain to improve application development process
  - Realized significant ROI by shortening development process
  - Combined technologies to achieve outstanding graphical performance
  - Established vision and achieved wide acceptance of the project in HQ
  - Defined innovative UI platform for Samsung phones for European market
  - Architected Designer Tools & Communication Frameworks for developing mobile based applications

- Technical Lead for Verizon BREW Smart Phones and Verizon BREW Feature Phones
  - Architected the PRI communication framework and Windows tools
  - Lead the team to develop device side PRI framework with interfacing to OMA-DM, PST protocols
  - Developed Windows Application using .NET Framework 3.5 and Infragestics Controls

- Technical Lead of Samsung's Windows Composite USB Driver
  - Defined the high level design of Composite USB Driver on Windows and BREW Devices
  - Lead the team to develop WDM based Multiport (Modem, Serial) USB driver
  - Debugged Kernel driver issue using WinDbg
  - Lead the test team to run Windows Log Kit testing in both DTM and HCT tools for Windows Vista/XP and conformance tests on Windows 98/ME/XP/Vista/2K

- Architect of Phone Sync SDK/WMC for VZAccess Manager, PST and OMA-DM
  - Worked closely with Verizon, SmithMicro in formulating the connectivity requirements
  - Designed the Sync SDK/WMC targeted for low end phones to deliver highest sync performance
  - Lead a team of 21 engineers based in Dallas, Korea, India to develop and commercialize Sync SDK
  - Debugged critical issues of Phone Sync SDK using TRACE32/JTAG
  - Designed and Developed Windows SDK for the Windows Tools Tech Lead of Software Defined Radio Test Kit (Patent: US 2008/0003949 A1)
  - Designed and developed scalable SDR test kit which support Viterbi, Cdma, Wibro, etc in VC++, MFC, DirectX.
- Tech Lead of Windows SDK tools and Resource Compilers for the Space Samsung Mobile Platform
  - Architected and Developed UI Designer Tool using the wxWidgets, XML/DTD, ImageMagick
  - Developed Resource Compiler which compiles the XML resources into binary object playable on the Mobile and optimized it for FOTA updates
  - Developed over 25 tools (heap profilers, hotspot profilers, etc).

Feb'02 – Feb'03: U.S. Government of HUD - Washington, DC
Consultant - Senior Developer
- Designed and Developed middleware components and ASP applications Housing Choice Voucher Utilization (HCVU) and Operating Fund projects
- Designed and Developed the COM components which are responsible for HCVU is to facilitate PHAs to submit their monthly utilization data.
- Developed web applications in ASP, import and export of XLS documents
- Designed data model using Erwin tool
- Developed stored procedures for data query from the COM components

April'01 – Feb'02: G.E. Medical Systems, Milwaukee, WI
Consultant - Senior Developer
- Architect of wireless real-time monitoring mechanism for ApexPro Telemetry system
- Developed UDP Winsock transmitter and receiver modules, which use TLINK and RLINK protocol for communication
- Designed and developed a multi-threaded log server for receiver diagnostics monitoring, logs can be exported to excel for charting.
- Developed IPC mechanism between the Patient analyzer and log server using WIN32 named pipes.
- Created technical documentation in compliance with SIX SIGMA standards.

March'96 – April'01: Worked with GRETAG Imaging, E.C.I.L companies in the areas of embedded systems and Windows product development