

VISHAKHA TOMAR

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EDUCATION

New York University, Tandon School of Engineering

New York, USA

Masters of Science in Computer Engineering

Sep 2021 - May 2023

Courses: Internet Architecture and Protocol, Principles of Database systems, Real-time Embedded Systems, Wireless communication

Dr. APJ Abdul Kalam Technical University

India

Bachelor of Technology in Electronics Engineering, 81.9%

Aug 2013 - May 2017

SKILLS

Languages: Python, C, SQL, HTML, PHP

Telecom: LTE, 5G NR protocol knowledge; SIP, NAS, RRC layer log analysis

Database & Data Analysis: Oracle Data Modeler, Tableau, Data Modelling, ERD

Tools: ELT, Wireshark, MATLAB, Git

EXPERIENCE

MediaTek

Noida, India

Project Coordinator

July 2019 – April 2021

- Global coordinator of Mass Production Regression Testing which is performed by teams in India and China
- Managed quality analysis projects of 5 Modem generations of MediaTek Chipset based on 3GPP/3GPP2 releases of wireless technology 5G, LTE, WCDMA, C2K, GSM.
- Enhanced the Mass Production Regression activity from a team of 2 members at local site to a team of 11 members in local and China and Taiwan sites
- Achieved the Annual Operational Plan (AOP) Goals for the business unit, regularly monitored customer tickets, devised project KPIs, process improvements to meet KPIs. Used CANI (Continuous and never-ending Improvement) approach for the project to meet the goals.

MediaTek

Noida, India

Engineer

August 2017 – June 2019

- Performed black box Regression Testing of Modem projects of MediaTek Smartphones based on 3GPP releases
- Analyzed Modem Log Radio Resource (RR, CC, MM, RRC) and NAS level analysis for various scenarios of MO MT call flow, PLMN search, IR and IMS call flow through SIP log analysis

Project: Mass Production Regression dashboard

- Standardized the system, data collection and management of the Regression activity. In 6 months, achieved 100% standardization.
- Developed the dashboard using Tableau for run time data analytics and data visualization
- Reduced the 'data analytics and process improvement' effort by 70% using automation and dashboard.
- Reduced customer issues by 45% in 2020 by enhancing the regression activity using the analytics form the dashboard

PROJECTS

Air Travel Insurance Database system to aid in business intelligence

November 2021-present

- Designed and developed a relational database that stores data of insurance taken by air travelers for data analytics to aid in business intelligence.
- Developed a UI application to enable data manipulation operation on the database
- Technologies used: MySQL, Python, HTML, Php, Oracle Data Modeler

The Embedded Gyrometer "Need for speed"

November 2021-present

- Develop a wearable speedometer to calculate angular velocity, distance travelled of walking/ running using Embedded board STM32F429 discovery board

LEADERSHIP

Student Mentor, Gradvine

Aug 2021-Present

Guiding students for their preparation in pursuing higher studies (MS) abroad