

VISHAKHA TOMAR

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EDUCATION

New York University

Master of Science in Computer Engineering, 3.725 GPA

New York, USA

Sep 2021 - May 2023

Dr. APJ Abdul Kalam Technical University

Bachelor of Technology in Electronics Engineering, 81.9%

Uttar Pradesh, India

Aug 2013 - May 2017

SKILLS

Languages: Python (NumPy, Pandas, matplotlib, Streamlit), Java, C, HTML

Database & Data Analysis: Oracle SQL, MySQL, PostgreSQL, ERD, ETL, Data Modelling

Cloud: Amazon Web Services (Intermediate), EC2, Lambda, S3, ECS

Tool: Jupyter Notebook, VS Code, Tableau, Git Desktop, MySQL workbench, Microsoft Azure

ACADEMIC PROJECTS

Health Information Management System Database Project

Jan 2022 - Apr 2022

- Developed a **Full-Stack Web Application** for a Health Information Management system with online transaction processing on **Microsoft Azure MySQL database**.
- Created PostgreSQL **Data Warehouse** of OLTP transactions for data analytics, performed **ETL**, partitioned, indexed, and optimized tables. Integrated data warehouse with **Tableau** for real-time analytics

Air Travel Insurance Database system to aid in business intelligence Project

Nov 2021 - Dec 2021

- 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 **Full-Stack** web application including all the CRUD operation on the database.

Voice Activated Medical Caregiver System Engineering Project

Sep 2022 – Present

- Researched voice-activated Virtual assistant systems from industry and research publications.
- Conceptualized and Engineered the development of the system. Expanded architectural design of sub-components like AI, database, peripheral devices maintaining optimized operational cost.

PROFESSIONAL EXPERIENCE

US Cellular

Illinois, US

Engineering Intern

Jun 2022 – Dec 2022

- Developed Automation script for Advanced LTE Lab to run regression in Lab. Created end-to-end scripting including interworking of the tools. Developed 26 scripts of WPS Volte and IP Voicemail.

MediaTek India Private Limited

Noida, India

Senior Engineer

Jul 2019 – Apr 2021

- Managed quality analysis projects of 5 Modem generations of MediaTek Chipset based on 3GPP/3GPP2 technology.
- Standardized the system, data collection and management of the activity. In 6 months, achieved 100% standardization.
- Achieved 100% business unit Annual Operational Plan (AOP) goals, created project KPIs, leveraged data analytics to monitor performance, and produced actionable insights to meet and exceed KPIs.

Engineer

Aug 2017 – Jun 2019

- Developed the database for the project and developed a Tableau dashboard for real-time data analytics and data visualization.
- Reduced the 'Data analytics and Process Improvement' effort by 70% using automation.
- Improved project using dashboard analytics to reduce customer tickets by 45% in 2020.

LEADERSHIP AND EXTRA-CURRICULARS

Graduate Course Assistant, NYU

Jan 2022-May 2022

Teaching Assistant at the course *Principles of database systems* under Professor Amit Patel.

Student Mentor, Gradvine

Aug 2021-Present

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