VIKAS KUMAR

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EXPERIENCE

SAMSUNG R&D INSTITUTE - DELHI | Software Engineer
Sep 2022 – Present | Noida, UP, India (Full-Time)
- Engineered and implemented some of the core functionalities of VXT CMS (a Samsung B2B TV Solution) by developing robust **RESTful APIs** and **Microservices** and ensured their seamless integration with frontend components for smooth functionality.
- Seamlessly integrated **AWS** services into backend infrastructure and turned it into a **Serverless Application**, majorly based upon Lambda Functions and API Gateways, by leveraging services such as S3, EC2 and ECS.
- **Integrated Third-Party Applications**, created and incorporated a SmartThings app with the help of Samsung's in-house Framework (Wyne) into VXT CMS Canvas part, empowering both general consumers and business owners with effortless control over smart home appliances.
- Managed **SQL** and **NoSQL** databases, including **PostgreSQL**, **AWS RDS** and **DynamoDB** by focusing on optimizing database schemas and queries, employing advanced data modeling techniques and indexing strategies to enhance performance.
- Comprehensively tested the application using **Selenium** and **Jest** frameworks by developing **automated test frameworks** and **test scripts** then testing across various edge test cases, browsers and devices.
- Cleared the **Samsung Software Competency Test (SWC)** - Professional certification, validating expertise in full-stack development and software engineering at global level.

THE SMART CUBE | Data Analyst
August 2021 – May 2022 | Noida, UP, India (Full-Time)
- Utilized **Python** and **SQL** to automate data processing tasks, streamlining the analysis of sales data from various sources including Nielsen, NPD, LexisNexis, Euromonitor, and Mintel.
- Generated actionable insights through **data visualization** techniques using tools like **Tableau**, enabling stakeholders to make informed decisions regarding product strategies and market positioning.
- Delivered comprehensive **quantitative** and **qualitative analysis** reports to multiple clients, by integrating **statistical methods** to extract actionable insights to drive strategic decision-making.

PROJECTS & PUBLICATIONS

VERSIFY *Live Demo* | *GitHub*
- Developed MERN (MongoDB, Express.js, React, Node.js) application to facilitate crafting and sharing poetry, stories, and thoughts.
- Designed **RESTful APIs** to facilitate seamless communication and efficient data transfer between frontend and backend components.
- **Integrated authentication** and **authorization systems** with **JWT Tokens** to ensure a secure environment for users.

SMART PARKING MANAGEMENT SYSTEM *Video Demo* | *Paper Link*
- The **cloud-based app** streamlines vacant space management and boosts security with **Arduino Image Detection via QR Code**, seamlessly integrated with a robust database.
- The app focuses on optimizing vehicle flow, offering live parking updates, enabling pre-booking, and automating billing based on parking duration.

EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY
B.Tech in Electrical Engineering
Grad. May 2021 | Delhi, India

BAL BHAVAN PUBLIC SCHOOL
10th & 12th Grade: Physics, Chemistry, & Mathematics
Grad. May 2017 | Delhi, India

COURSEWORK

UNDERGRADUATE
- Data Structures and Algorithms
- Design and Analysis of Algorithms
- Object Oriented Programming
- Database Management Systems
- Operating Systems
- Computer Networks
- Numerical Engineering

SKILLS

PROGRAMMING
Languages:
- C/ C++ • JavaScript • JAVA • Python

Front-end:
- HTML • CSS • React.js

Back-end:
- Node.js • Express.js • Socket.io

Databases:
- MongoDB • PostgreSQL • Redis

Cloud:
- Amazon Web Services (Lambda, S3, EC2, ECS, RDS, DynamoDB) • Jenkins

Testing:
- Selenium • TestNG • Jest

Tools:
- Postman • Git • GitHub • VS Code

OTHERS
- AI Tools (ChatGPT, Gemini etc.)
- MS Excel & Powerpoint
- Design Tools (Figma & Canva)
- Effective Communicaton • Googling

AWARDS
- *Spot Award at Samsung* (for making and demonstrating a successful PoC).
- *Kudos Award at Smart Cube* (for great performance & contributions).

MISCELLANEOUS
- An Avid *Illustrator* & Adept *Photographer*
- A Proficient *Chef* & Big *Foodie*
- An Ardent *Traveller* & *Adventurer* Lover