SOURABH SONI

Hyderabad, India · sourabhsoni8085@gmail.com · +91 9827493262 · linkedin.com/in/sourabh-soni

WORK EXPERIENCE

Qualcomm   Hyderabad, Telangana
Software Engineer   March 2022 - August 2024

- Contributed for **Linux Kernel Driver** for runtime registers settings, refractoring, Interrupts Handling and Memory leakage issue for some of the Open Source Camera Modules like Image Fetch Engine.
- Development of Noise processing features for high-end chips Snapdragon 8 Gen 3 Camera module like ICA, ANR, EVA, TF.
- Developed frameworks for Bit Exactness Test to check H/W node like ANR, TF Blending of Image frames to provide best Quality Images in Pre-Sil Stage.
- Simulation Software for chip fabrication simulation logic in Presil stage validation and handling backend simulation logic in Springboot like CSIM, RUMI For performing large-scale simulations.

Affine Analytics   Bengaluru, Karnataka
Software Engineer   Dec 2020 - March 2022

- Contributed as Data Engineer for Marketing projects through data insights and analysis in their Data pipelines to increase client market values.
- Data base modeling and enhanching database data pipelines for Client Inventory system of their marketing data through Cloud Platforms like Azure Data Factory.
- Developing whole new SQL Queries for Raw Data cleanups to improve Data insights and optimizing Data driving from Web application. Platforms like SSIS & ADF pipeline to make relation between Client Sales and Marketing Data.
- Data Models and Data Pipelines Workflow presentation to Client and fixing bugs of the existing pipelines.

EDUCATION

Indian Institute of Information Technology, Allahabad   Prayagraj, U.P
M. Tech Information Technology *GPA: 8.14*   June 2018 - June 2020

Chhattisgarh Swami Vivekanand Technical University, Bhilai   Bhilai, C.G
B.E *GPA: 7.92*   July 2013 - May 2017

INDUSTRIAL PROJECTS

BET unit testing Framework *User-space Android device Driver, Android HAL*
Developed a Unit Testing framework to simulate H/W registers in S/W before Pre-Silicon to ensure correct register values in real hardware for enhanced image frame quality.

TFE Bus Refractoring *Linux Kernel API's, Linux Kernel Device Drivers Platform*
Created a design for output port resources that includes a BUS write master to dynamically load, acquire, and apply them by removing all hard-coded initialization.

Modeling and Extraction of Marketing Campaign Data *MySql, Azure Data Factory, Spring boot, Kafka*
Designed a data model converting and associating raw marketing campaign data from clients' websites into Facts and Dimension Tables, mapping Entity Key to Store Name, creating Data pipelines, and automating Web Scrapping to create a complete ETL system.

SKILLS

Programming Languages:	C, C++, Java, SQL
Problem Solving:	Data Structures, Algorithm
Developer Tools:	Code Insights, Android Debug Bridge, Android NDK, Gerrit, VS Code, SSIS, Jenkins
Frameworks:	Android HAL, Kernel Mode Driver, Linux Kernel API, User Mode Driver Framework
Operating System:	Linux

AWARDS

Standout Performer   Affine Analytics
Recognized for ownership and leading first projects while training contributing in Delivery.   March 2021

Achiever of the Month   Qualcomm
Recongnized for handling and completing project independently with succesful bringup for the good Ownership and Responsiblitiy.   May 2023