

Gaurav Barwalia

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Data Engineer

ZS Associates (on Tech Mahindra's Payroll), Pune

June 2021 - Present

- Serving Bristol Myers Squibb (BMS), a pharmaceutical company for their commercial analytics workloads.
- I am currently part of an enhancement team and use in-house developed Python-based framework for ETL activities.
- My primary job is to integrate new data sources, create data models, build/modify business logics and make it reportable.
- We consume data from various data sources including S3, relational databases, FTP servers, email attachments etc.
- Working closely with business and analytics teams to align on requirements and development is part of my job.

ETL Developer

IBM India Pvt Ltd, Pune

Feb 2016 - June 2021

- Served NHS England for their Business intelligence requirements.
- I was part of BI and ETL team, integrated and supported many healthcare data sources using SQL server, SSIS and SAP BO.

Founder

GB Info Systems, Pune

Sep 2018 - Jul 2020

- Designed production grade smart home devices to control home appliances via internet using mobile app based on ESP8266/ESP32 microcontrollers and used BLYNK IOT platform for firmware (C++) development and EasyEDA/JLCPCB for PCB design/development.
- Used FREERTOS for real time multitasking program and ArduinoJSON library for handling JSON data in microcontroller.
- Integrated Alexa and Google assistant via IFTTT services and also created custom projects like Smart Button, Smart energy meter based on client requirements.

YouTuber – Electronics Videos

Self Employed, Pune

Feb 2020 - Mar 2020

- [Control your TV or Music System from anywhere in the world.](#)
- [Sound responsive disco light system complete tutorial.](#)
- [How to make an infinity mirror with minimum resources.](#)
- [Electrical firework system.](#)
- [Persistence of vision display.](#)

Education

Birla Institute of Technology

B.E, Electrical and Electronics Engineering (2011 – 2015)

Skills

- AWS S3 / RDS / EC2
- SQL / NoSQL
- Python
- Redshift / Snowflake
- PySpark / Databricks
- Kafka / Confluent
- Airflow / CRON
- Data Modeling / Erwin
- Docker
- ETL / SnapLogic / SSIS
- SAP BO / MicroStrategy
- GIT / GITHUB
- Distributed computing
- GenAI / RAG
- IOT Firmware / Hardware

Hobbies

- Singing/Guitar
- Swimming
- Table tennis
- Badminton
- Cooking

Certifications

- [HackerRank : Advanced SQL certificate](#)
- [Hands-On Essentials: Snowflake Data Engineering Workshop](#)
- [Academy Accreditation - Databricks Fundamentals](#)
- [Kafka Fundamentals with Confluent Cloud Accreditation](#)
- [DAT220x: Delivering a Data Warehouse in the Cloud](#)
- [DAT217x: Implementing ETL with SQL Server Integration Services](#)
- [CLF-C01: Amazon Web Services Cloud Practitioner](#)
- [AZ-900: Microsoft Azure Fundamentals](#)

Associate Electrical Engineer

P&M and Hi-Tech City Centre Mall, Jamshedpur

Jul 2015 - Jan 2016

- In 2015, Hi-Tech Group was building Jamshedpur's first City Centre Mall with partnership of P&M group. I was posted as a trainee associate engineer for the electrical construction of this mall.
- My job was to monitor all the electrical construction work out there and create reports. I gained a lot of practical experience and applied this experience (both civil and electrical) in building my parents' house in Jamshedpur.

Summer Intern

Tata Steel, Jamshedpur

May 2014 - Jun 2014

- Tata Steel Jamshedpur plant installed a new IR sensor based continuous-casting billet cutting length measurement device. This device was supposed to improve the billet length precision and save money.
- My job was to monitor the billet length and suggest management if it is working as per expectation. As part of this internship, I learned about steel making procedures and how electrical machines are used in every step of the production.

Career Achievements

- City 3rd topper in 12th state board exam.
- Designed e-cigarette in first year of engineering, news was covered by [The Telegraph](#).
- Started a software firm in Ranchi with college friends, company inaugurated by Jharkhand state electricity board chairman and news covered by [The Telegraph](#) and others.
- Started an IOT firm for home automation specific products.
- Received Manager's choice, Star of the month, Bravo, Pat on the back awards few times within the organization.