

# ARMAN SINGH GREWAL

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## EXPERIENCE

### Software Engineer Trainee (R&D)

Informatica - Bengaluru, KA

Tech Stack: **Python**, **LLMs**, **Java**, **React**, **Next**

Aug 2024 - present

- Spearheading UI development of the Resource Utilization Dashboard using **Next.js** and **Droplets**.  
As part of a larger initiative, this project has contributed to saving Informatica approximately \$9 million year-to-date.

### Software Engineer Intern

Xperi (TiVo) - Bengaluru, KA

Tech Stack: **Python**, **Bash**, **SQL**, **NoSQL**

Aug 2023 - Jun 2024

- Developed and improved processes to collect and enrich metadata for movies before sending it to the next team.
- Wrote a Python script to sync data b/w **ElasticSearch** and **MSSQL**, reducing sync time from **72 to 4hrs**.
- Used **Telegraf** to collect data from **Burrow** and send it to **Splunk** for monitoring using interactive dashboards

## PROJECTS

### File Manager Website

July 2023

Tech Stack: **HTML**, **EJS**, **Node.js**, **Express.js**, **AWS S3**, **PostgreSQL**

- Website to Upload, Rename, Move, Delete files/folders from local disk to a private **AWS S3** bucket.
- **Express.js** for routing. **PostgreSQL** for storing metadata of files and validation.

### Satellite Image Analysis

April 2023

Tech Stack: **Python**, **Data analysis**, **Machine Learning**

- Analysis of satellite images over Philippines, and detecting trends in vegetation overtime using Normalized Difference Vegetation Index.
- Visualizations on dashboard using **matplotlib**, **seaborn**, **autoviz**, **explainerdashboard**.
- Fitted a machine learning model with over **97% accuracy**.

### Suicide Data Analysis

April 2021

Tech Stack: **Python**, **Data analysis**

- Preprocessing, Visualization and Analysis on a Kaggle dataset.
- Used Libraries like **NumPy**, **Pandas**, **Matplotlib** and **Seaborn**.

## SKILLS

### Languages

**Python**, **Shell scripting**, **Java**, **C++**, **C**, **SQL**, **Ruby**

### Web Technologies

**Node**, **Express**, **Vue**, **HTML**, **CSS**, **JS**, **JQuery**, **Flask**, **Django**, **Spring Boot**, **React**, **Next**

### Databases

**MySQL**, **MSSQL**, **PostgreSQL**, **Redis**, **ElasticSearch**, **Neo4j**, **MongoDB**, **Flyway**

### Machine Learning

**Scikit-learn**, **Tensorflow**, **Pytorch**, **Keras**, **Splunk**, **Excel**, **MatLab**, **LLMs**

### DevOps

**Docker**, **Jenkins**, **RunDeck**, **Kubernetes**, **Chef**, **Terraform**

### Miscellaneous

**GitHub**, **RabbitMQ**, **Apache Kafka**, **Telegraf**

## ACHIEVEMENTS AND CERTIFICATIONS

- **Neo4j** Certified Professional
- Specialization in **Natural Language Processing**
- Level: **Contributor** on **Kaggle**
- **RabbitMQ** Course by CloudAMQP
- **Competitive Programming Course** by Coding Spoon
- **Redis** Certified Developer
- Java/Python/SQL certificates on **HackerRank**
- **DSA self-paced course** from **GFG**
- **RH-124** and **RH-134** from **RedHat**
- **DBMS-1** and **DBMS-2** from **Infosys**

## EXTRA-CURRICULAR ACTIVITIES

- **Captain, Volleyball Team**: Led the team to a gold medal in the inter-house championship. **IIT Madras**
- **Class Representative**: Competed with over 30 sections and won Section of the Year 2022. **LPU**

## EDUCATION

### BTech Computer Science and Engineering (Hons.)

2020 - 2024

Lovely Professional University, Phagwara, Punjab

CGPA 8.84

### BS Data Science and Programming

2020 - variable

**IIT Madras**, Chennai, Tamil Nadu

CGPA 7.5

### Higher Secondary

2018 - 2019

Spring Dale School, Ludhiana, Punjab

CGPA 10