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**
- Contributing to UI development of a dashboard for analyzing K8s cluster metrics, utilizing **Next.js** and **Droplets** library.
- Currently working on developing Claire®GPT prototype, which is built upon **GPT-4o** APIs.

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
- Competetive 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