Divyansh Rana

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EDUCATION

University of Calgary   Calgary, AB
Bachelor of Science in Computer Science   *Sept. 2020 – May 2024*
Awards: University of Calgary Entrance Scholarship, Dean's List (2X)   **3.93 GPA**

EXPERIENCE

TC Energy   *May. 2023 – Current*
Software Engineer (Data) Intern   *Calgary, AB*
- Implemented an ML model which helps categorize and link 5+ million pages of pipeline data and about **30,000 miles** of pipes to a TVC record, potentially saving $600+ million.
- Developed ETL scripts, processes, and tools for offline data migration/verification and data quality improvement using AWS glue, significantly reducing manual effort by **75%** in updating table links
- Spearheaded the creation of Power BI dashboards, extracting **160,000+** rows of data from Datalake (AWS S3) by linking an excel sheet to the database using ETL scripts (AWS glue) and saving **100+** hours/year of human effort

Software Engineering Intern   *Aug. 2023 – Present*
ReliablyMe   *Toronto, ON*
- Integrated **OpenAI** API to the enhance chatbot, boosting engagement by **40%** due to the use of NLP models, calculated using commitments completed.
- Analyzed and fixed over **1000** lines of code in the admin app, leveraging **React** and **Redux**, effectively resolving an issue that caused a partial system shutdown

University of Calgary   *May 2022 – Dec. 2022*
Data Engineer/Analyst | Industrial academic project   *Calgary, AB*
- Formalized a pipeline using NLP techniques to extract actionable public requirements from 1 Mil + tweets to optimize the **City of Calgary's** manual analytic techniques and is projected to reduce workload by **60-80%**
- Authored a [**Research paper**](#) ⧉ to illustrate the methodology and evaluate results for 3 datasets (1600+ tweets)

PROJECTS

Virtual Checkout Machine ⧉ | *Java, JUnit*
- Collaborated to develop a virtual grocery store with 5 self-checkout stations to represent an actual store
- Constructed a separate interface for the customer with 2 methods to look up items alongside security measures for bagging scales using swing and awt libraries
- Produced 5+ test cases to test the scanners in the checkout machine

Music-Share | *Django, React, SQLite, Postman*
- Co-produced a social media application where the user can like multiple songs and get recommendations based on the liked songs from a libaray of 10000+ songs
- Implemented 10+ rest APIs which interacted between React servers and SQLite which incorporated a 5+ component relational database

LEADERSHIP

**P-90** | *Project Manager of Reach*
- Worked on an Android app, with features relating to repair and replacement of equipment (at sites) and possibilities for task and asset management, focused on Water Quality Improvement in 3 cities in developing countries
- Spearhead a team of 5-10 members and oversee the progress utilizing weekly meetings and deadlines

TECHNICAL SKILLS

Languages and Tools: Python, JavaScript , Java , SQL, CSS, DAX, PowerAutomate, PowerBI, Git
Frameworks/Libraries: AWS Athena, AWS glue, React, Django, Numpy, scikit-learn, pandas, spacy, ML-model(**Roberto emotions analyzer** ⧉)