PRAISELIN GLADSTON

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SUMMARY

Innovative software developer with 6 years of experience in designing and optimizing relational database systems. Demonstrated expertise in developing columnar storage solutions and automating cloud-based database monitoring. Aspiring to leverage my development skills and newfound AI/ML knowledge to excel as a data scientist. Committed to driving impactful data-driven solutions that address complex business challenges.

EDUCATION

Graduate Certificate: Applied Artificial Intelligence and Machine Learning (GPA: 3.83) **January 2024 – August 2024**
Conestoga College, Ontario, Canada.

Bachelor of Engineering: Computer Science (CGPA: 8.7) **June 2013 – April 2017**
Velammal Institute of Technology (Affiliated to Anna University), Chennai, India.

PROFESSIONAL EXPERIENCE

Software Developer, Zoho Corporation Pvt. Ltd., **May 2017 – November 2023**
Chennai, India.

- Engineered a high-performance columnar storage system, accelerating query processing by 30%, using vectorized data.
- Optimized data processing by implementing multithreading and refining the query plan layer for faster evaluation.
- Devised data storage operations with a customized file organization system, enhancing disk I/O efficiency.

Technologies:

C, C++, Java, Python	GDB, LLDB Debugger	Intel VTune Profiler
Visual Studio Code	HTML/CSS, JavaScript	GitLab
Shell Scripts	Static Code Analysis	Code Coverage

RECENT PROJECTS

Skin Disease Detector and Tracker

- Developed an ensemble ML model trained on various skin disease images, leveraging TensorFlow GPU.
- Integrated datasets from ISIC HAM10000 and DermNet for comprehensive training.
- Implemented a tracking model to predict disease progress levels.
- Technologies: Python, Flask, GPU computing, Git, Docker, Grafana

Sentiment Analysis

- Developed an NLP model to analyze Reddit posts using the PRAW Python library.
- Ensured data privacy through anonymization and minimization techniques.
- Applied tokenization, stemming, and lemmatization for improved text data preprocessing and model accuracy.
- Technologies: PRAW, Logistic Regression, SVC, TfidfVectorizer, emoji, SentimentIntensityAnalyzer, tkinter

Malware Detection

- Analyzed file byte plots to differentiate between benign and malicious files.
- Employed CNNs to achieve high accuracy in malware classification.
- Technologies: Jupyter Notebook, ResNet50, VGG16, LBP, lightgbm, tqdm

SKILLS

PostgreSQL | Linux, Windows, macOS | Research & Development | Analytical Thinking & Problem-Solving | Agile Methodology