Dhrumil Patel

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EXPERIENCE

Snowflake

Ramp May - Aug 2024

Software Engineer Intern

- New York City, US
- Built the international bill payment integration for 2 accounting platforms, deployed to 2600+ businesses
- Migrated accounting validation functions to run in bulk, improving their p95 execution time by 5x

• Built a chatbot to search 500k+ leads' websites; won the company hackathon and deployed the project

Software Engineer Intern

Sept - Dec 2023 San Mateo. US

- Built clustering functions for Snowflake SQL to cluster **500k rows x 1k features in < 10 mins** with metrics
- Developed a novel algorithm to find the number of clusters in large datasets in linearithmic time

Roblox May - Aug 2023

Software Engineer Intern

San Mateo, US

• Built QA's first observability tools to calculate release metrics and report anomalies. Used by 4 teams

Vector Institute Sept - Dec 2022

Applied Machine Learning Research Intern

Toronto, CA

• Used domain adaptation to improve privacy-preserving federated learning CNNs' performance by 3.2%

A Thinking Ape May - Aug 2022

Software Engineer Intern

Vancouver, CA

• Implemented 2-step authentication using Django, Objective C and Java to eliminate 10k+ bots per day

Flinks Jun 2021 - May 2022

Machine Learning Intern

Montreal, CA

- Built & deployed a BERT-driven entity recognition system in PyTorch to interpret 100M+ transactions per day
- Improved the existing entity recognition system's performance (F-score) by 56%
- Used Knowledge Distillation to reduce required training data for entity recognition models by 30%

PROJECTS & ORGANIZATIONS

Haystackfs

May 2021 - Present

• A verified Discord bot for fast and secure file search used by 42k+ users in 650+ servers to manage 1M+ files

Unsupervised Monocular Depth Estimation

2023

• Extends Godard, Aodha, Brostow's 2016 work with a CNN for semantic segmentation

Watolink

Oct 2019 - Dec 2022

Led a team of 10 to build an EEG signal processing API for a mind-controlled communication system

Google Code-In: CCExtractor

Oct 2019 - Feb 2020

• Built a Python Github App that has reported 1500+ unsupported songs for CCExtractor and SwagLyrics

AWARDS & ACCOMPLISHMENTS

1st at the International NeurotechX Competition

2022

HackMIT thatGameCompany Challenge 2nd Place, HackMIT MIT-IBM Challenge Winner

2022, 2020

Top 3% Globally, 7th in Canada at Google Hashcode Qualifying Round Top 7.5% Globally in Facebook HackerCup

2022 2021

Hack The North Manulife Challenge Winner; Various prizes at 40+ hackathons

2017 - Present

EDUCATION

University of Waterloo, Candidate for Bachelor of Computer Science, Honours

President's Scholarship of Distinction, Faculty GPA: 3.9

TECHNICAL SKILLS

Languages: Python, C++, SQL, Java, Objective C

Tech: BigQuery, Google Cloud Platform, Docker, ElasticSearch, Spark, DigitalOcean, PostgreSQL

Libraries: PyTorch, Huggingface, OpenCV, scikit-learn, NumPy, SciPy, Tensorflow, Keras, Pandas, Matplotlib