

Dhrumil Patel

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EXPERIENCE

Optiver <i>Software Engineer Intern</i>	Jun - Aug 2025 Chicago, US
Ramp <i>Software Engineer Intern</i>	May - Aug 2024 New York City, US
<ul style="list-style-type: none">Built the international bill payment integration for 2 accounting platforms, deployed to 2600+ businessesMigrated accounting validation functions to run in bulk, improving their p95 execution time by 5xBuilt a chatbot to search 500k+ leads' websites; won the company hackathon and deployed the project	
Snowflake <i>Software Engineer Intern</i>	Sept - Dec 2023 San Mateo, US
<ul style="list-style-type: none">Built clustering functions for Snowflake SQL to cluster 500k rows x 1k features in < 10 mins with metricsDeveloped a novel algorithm to find the number of clusters in large datasets in linearithmic time	
Roblox <i>Software Engineer Intern</i>	May - Aug 2023 San Mateo, US
<ul style="list-style-type: none">Built QA's first observability tools to calculate release metrics and report anomalies. Used by 4 teams	
Vector Institute <i>Applied Machine Learning Research Intern</i>	Sept - Dec 2022 Toronto, CA
<ul style="list-style-type: none">Used domain adaptation to improve privacy-preserving federated learning CNNs' performance by 3.2%	
A Thinking Ape <i>Software Engineer Intern</i>	May - Aug 2022 Vancouver, CA
<ul style="list-style-type: none">Implemented 2-step authentication using Django, Objective C and Java to eliminate 10k+ bots per day	
Flinks <i>Machine Learning Intern</i>	Jun 2021 - May 2022 Montreal, CA
<ul style="list-style-type: none">Built & deployed a BERT-driven entity recognition system in PyTorch to interpret 100M+ transactions per dayImproved 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
<ul style="list-style-type: none">A verified Discord bot for fast and secure file search used by 42k+ users in 700+ servers to manage 1M+ files	
Unsupervised Monocular Depth Estimation	2023
<ul style="list-style-type: none">Extends Godard, Aodha, Brostow's 2016 work with a CNN for semantic segmentation	
Watolink	2021-2022
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Built a Python Github App that has reported 1500+ unsupported songs for CCEXtractor and SwagLyrics	

AWARDS & ACCOMPLISHMENTS

Top 3% Globally, 7th in Canada at Google Hashcode Qualifying Round	2022
Top 7.5% Globally in Facebook HackerCup	2021
HackMIT MIT-IBM 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, Docker, Elasticsearch, Spark, PostgreSQL, PyTorch, OpenCV, scikit-learn, NumPy