

IRFAN SHARIF

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SKILLS

- Loren Ipsum

WORK EXPERIENCE

Cockroach Labs

Backend Engineering Intern

Aug – Dec, 2016

New York, NY

- Implemented distributed **SORT**, **AGGREGATION**, **DISTINCT** and **JOINS**
- Optimized existing **JOIN** implementation to use hash joins for an $\mathcal{O}(n)$ factor speedup

Shopify

Production Engineering Intern

Jan – Apr, 2016

Ottawa, ON

- Designed a CI system with auto-scaling build agents running on AWS Spot Instances
- Engineered termination-resilient build workers with dynamic workload re-distribution
- Optimized orchestration system to handle 1,000 builds per day saving 60,000 USD per month

Solink

Software Engineering Intern

May – Sept, 2015

Kanata, ON

- Decomposed monolith platform into independent, resilient microservices

RESEARCH

UWaterloo Computer Aided Reasoning Lab

Researcher

Sept – Dec, 2016

Waterloo, ON

- Researched under Prof. Vijay Ganesh on Boolean SAT solvers, optimizing search strategies
- Independently discovered parallelization algorithm by means of clustering related SAT clauses

PROJECTS

cfilter

website.com

- Loren Ipsum

gossip

website.com

- Loren Ipsum

mqueue

website.com

- Loren Ipsum

cerebrum

website.com

- Loren Ipsum

chaos-monkeys

website.com

- Loren Ipsum

rlisp

website.com

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dit

website.com

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EDUCATION

University of Waterloo

Honours Bachelor of Applied Science in Computer Engineering

2014 – 2019 (*expected*)

GPA 3.7