

Jayant Shrivastava

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Education

BASc in Computer Engineering
Graduating **April 2022**
University of Waterloo
• **4x** Dean's Honors List
• **91.56/100** Average

Skills

Languages

Python • Go • Ruby • C++ • C
JavaScript • TypeScript • SQL

Tools/Frameworks

Kafka • Docker • GraphQL • Git
Node.js • React • Rails • gRPC

Community & Awards

Tech+ UW • Present

Mentoring students and helping
build a more diverse & inclusive
tech community at UW

UWBlueprint • 2019

Developed apps for NPOs in
support of children's education,
civil rights, and sustainability

16 Weeks • 2019

Created videos for a YouTube
channel with 700+ subscribers
to provide internship insights

Delta Hacks • 2018

Won a \$1200-valued prize out of
76 teams for making an app to
get emergency medical info

Projects

Buoy (Go) • [link](#)

Built a distributed key-value
store backed by Raft, tolerant of
node failures & partitions

Autocompleter (Python) • [link](#)

Created a thread-safe text
completion library backed by a
LRU cache and trie

Groupchat (Go, Docker) • [link](#)

Developed a real-time chat
messenger server and client

Interests

Board Games • Cooking
Running • Basketball

Experience



Cockroach Labs

Software Engineering Intern

[Sept. 2020, Dec. 2020]

Contributed new features such as database prefixes to CockroachDB, an
open-source SQL database used by 400+ companies in 1100+ global clusters

Improved the speed & memory usage of sequenced inserts by 83% & 67%
respectively by implementing the standard SQL sequence "cache" function in **Go**

Increased database schema test coverage by extending a random SQL generator to
create and verify schema changes in **Go**



Shopify

Backend Engineering Intern

[Jan 2020, Apr. 2020]

Developed backend services to actively record statistics from 300,000+ daily
advertisements using **Ruby** & **Kafka** events

Built a scalable, offline-first bulk data exporting feature for ad metrics facing 500+
users using **Rails** & **GCP** storage

Implemented and deployed IP throttling features in **Ruby** to significantly reduce bot
traffic and fraudulent click on ads

Integrated a new type checking framework into a large ads infrastructure project
built with **Rails** - featured on engineering blog



LCBO

Software Engineering Intern

[May 2019, Aug. 2019]

Reduced page load time of a production app by over 50% by implementing a
client-side cache using a **JavaScript** serviceworker

Worked on a serverless **Node.js** ETL pipeline to parse and index 1000+
spreadsheets into **MongoDB** & **ElasticSearch**

Prototyped and deployed a product recommendations engine facing 250+ beta
users using **Python** & **TypeScript Node**

Developed authentication middleware to secure sensitive API endpoints using
Node.js, **Azure AD**, & **OAuth 2.0**



Bonfire Interactive

Software Engineering Intern

[Sept. 2018, Dec. 2018]

Built **Go** microservices to perform virus scans on 100% of user files uploaded to
Amazon S3 to improve download security

Reduced quarterly support tickets by >350 by automating issue detection and
resolution using **Python** & **Airflow**

Developed analytics dashboards in a core application facing users from 400+
companies using **TypeScript** & **React**



Paralucent Inc

Web App Engineering Intern

[Jan. 2018, Apr. 2018]

Improved the deploy time for a production app by >20% by developing a new CI/CD
workflow with **Docker** & **Azure** services