# Jayant Shrivastava

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## Education

BASc in Computer Engineering
4th year, graduating **April 2022**
University of Waterloo
• **5x** Dean's Honors List
• **92.24**/100 Average

## Skills

### Languages

Python • Go • C++ • C • Java
Scala • Ruby • SQL

### Tools/Frameworks

Kafka • Spark • MapReduce
Hadoop • ZooKeeper • gRPC
Airflow • Docker • Rails • Git

## Community & Awards

**Hack the North** • Present

Leading an Intro to APIs workshop at Canada's biggest Hackathon w/ 3000+ attendees

**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

**Groupchat** (Go, Docker) • _link_

Developed a real-time chat messenger server and client

## Interests

Basketball • Altcoins • Cooking
Board Games • Fitness

## Experience

**Facebook**   [Sept. 2021, Dec. 2021]
Software Engineering Intern

Empowering data science and AI research across the company by working on compiler performance for a feature engineering framework made with **Python**

**Cockroach Labs**   [Sept. 2020, Dec. 2020]
Software Engineering Intern

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

Improved SQL sequences to be _83%_ faster and use _67%_ less memory by implementing sequence number caching in **Go**

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

**Shopify**   [Jan 2020, Apr. 2020]
Backend Engineering Intern

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

Built a scalable, offline-first 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 clicks on ads

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

**LCBO**   [May 2019, Aug. 2019]
Software Engineering Intern

Reduced page load time of a production app by >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**

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

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

**Bonfire Interactive**   [Sept. 2018, Dec. 2018]
Software Engineering Intern

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**