jayant shrivastava

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skills

Experience with backend engineering, distributed systems, databases, cloud infrastructure, and data engineering

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

Tools/Frameworks Kafka · Docker · Rails · qRPC · Airflow · ElasticSearch · CockroachDB · GraphQL · Node.js · React

education

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

experience

Cockroach Labs Software Engineering Intern

[September 2020, December 2020]

- Added a sequence caching feature to CockroachDB resulting in a <u>benchmarked</u> 83% amortized improvement in speed and 67% less memory usage when performing bulk writes with sequence increments
- Built schema features by expanding the SQL parser, AST, and online schema change execution code written in Go
- Improved test coverage by extending a random SQL generator to create and verify transactional schema changes in Go

Shopify Backend Engineering Intern

[January 2020, April 2020]

- Built an asynchronous data exporting feature for large data sets facing 500+ app developers using Rails & GCP storage
- Developed metrics tracking features to actively record metadata from 300,000+ daily ads using Ruby & Kafka events
- Reduced the negative monetary impact of click fraud for app store ads by co-developing IP throttling features in Ruby
- Led the research and execution of adding static type checking to a large Rails project featured on engineering blog

LCBO Software Engineering Intern

[May 2019, August 2019]

- Reduced page load time of a production app by >50% by implementing a client-side cache in a JavaScript serviceworker
- Secured sensitive APIs by developing Node.js middleware to support a RBAC strategy using Azure AD and OAuth 2.0
- Worked on a serverless ETL pipeline to parse and index thousands of spreadsheets into MongoDB & ElasticSearch

Bonfire Interactive Software Engineering Intern

[September2018, December 2018]

- Improved file download security by building Go services to run virus scans on 100% of user-uploaded files in Amazon S3
- Reduced the 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
- Built endpoints and tests for the company's core Node.js API responsible for managing millions of dollars in assets

Paralucent Inc Web Applications Engineering Intern

[January 2018, April 2018]

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

projects

Buoy	Built a distributed key-value store backed by Raft, tolerant of node failures (Go & gRPC)	<u>repo</u>
Easy-Autocompleter	Created a thread-safe text autocompletion library backed by a LRU cache and trie (Python)	<u>repo</u>
Groupchat	Developed a real-time chat messenger server and client (Go, gRPC, GCP, Docker)	<u>repo</u>

leadership, community, & awards

UWWiSTEM	Volunteered to run coding workshops and speak at events in support of diversity in STEM	2020
UWBlueprint	Co-developed apps for NPOs in support of various causes including education and civil rights	2019
16 Weeks	Created videos for a YouTube channel with 700+ subscribers to give students internship advice	2019
Delta Hacks	Won a \$1200-valued prize out of 76 teams for making an app to fetch emergency medical info	2018

interests

Basketball · Board Games · Tech for Social Good · Running · Gaming · Cooking