jayant shrivastava

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summary

Experience with backend engineering, cloud services, distributed systems, data engineering, databases, and file systems

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

Tools/Frameworks   gRPC • Airflow • Kafka • ElasticSearch • Docker • Rails • GraphQL • Node.js • React • Git

education

University of Waterloo   Graduating April 2022

BASc in Computer Engineering   3x Dean's Honors List, Cumulative Average: 91.56/100

experience

Cockroach Labs • Software Engineering Intern   **Incoming September 2020**

• Working on SQL schemas in CockroachDB, the open-source, cloud-native, distributed SQL database written in Go.

Shopify • Backend Engineering Intern • Ad Platform   **January to April 2020**

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

LCBO|next • Software Engineering Intern   **May to August 2019**

• Reduced page load speeds of a production web app by >50% by implementing a client-side cache and API pagination
• Secured sensitive APIs by developing middleware to support a RBAC strategy using Azure AD and OAuth 2.0
• Worked on an ETL pipeline to actively parse and index thousands of documents into MongoDB & ElasticSearch
• Prototyped and deployed a product recommendations system facing 250+ beta users using Python & TypeScript Node

Bonfire Interactive • Software Engineering Intern   **September to December 2018**

• Improved file download security by building Go services to run virus scans on 100% of user-uploaded files in Amazon S3
• Reduced support tickets by over 5% by automating issue detection and resolution with workflows using Airflow & Python
• Made analytics dashboards in a core application facing users from 350+ organizations using TypeScript & React

Paralucent Inc • Web Applications Engineering Intern   **January to April 2018**

• Improved deploy time for a production app by >20% by building a new CI/CD pipeline with Docker and Azure services

projects

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

leadership, community, & awards

UW Women in STEM • Volunteered to run coding workshops and speak at events in support of diversity in STEM   2020
UWBlueprint.org • Co-developed apps for NPOs in support of various causes including education and civil rights   2019
16 Weeks • Created YouTube videos for a channel with 700+ subscribers to give internship insights to students   2019
Delta Hacks IV, McMaster • Placed 1st out of 76 teams for building an app to fetch emergency medical information   2018
EngHack '18, Waterloo • Placed in the top 3 out of 32 teams for building a blockchain based lending app   2018

interests

Basketball • Board Games • Running • Gaming • Writing // jayshrivastava.me/blog