

# ARYAN KANWAR

☎ (+1)-437-366-8299 | ✉ a2kanwar@uwaterloo.ca | 🏠 <https://aryankanwar.github.io/> | 🌐 aryan-kanwar-01

## EDUCATION

University of Waterloo, Canada

Masters of Engineering, Electrical and Computer Engineering

January 2023 - April 2024

University Institute of Information and Technology, Shimla, India

Bachelors in Technology, Computer Science

August 2013 - July 2017

## TECHNICAL SKILLS

**Languages & Tools** Javascript, C, C++, Python, PHP

**Databases & Technology** MySql, MongoDB, ElasticSearch, Redis, S3, DynamoDB

**Softwares & Platforms** Nodejs, React, Express, GraphQL, Bluebird

**Cloud & Technologies** Amazon Web Services (AWS), Google Cloud Platform (GCP), IBM Cloud, Azure, Serverless

## WORK EXPERIENCE

**CareerBuilder**

*Remote*

Software Developer Engineer II | NODE.JS, GRAPHQL, MYSQL, REACT, AWS

May 2020 - January 2023

- Spearheaded CareerBuilder's transition from monolithic .NET framework to GraphQL-based microservices, customizing profiles for 45 million+ users.
- Designed an in-house MySQL Partition Keeper, resulting in 30% faster response times, 25% reduced disk I/O, and 20% lower storage costs, ensuring consistent performance with growing data volumes.
- Implemented an effective Redis-based deduplication system, reducing duplicate job applications by an impressive 95%, significantly improving data integrity.
- Successfully integrated AWS CodeDeploy for automated unit tests, resulting in an 80% reduction in deployment-related issues, enhancing overall process efficiency.
- Ensured smooth operations across backend, frontend, and IT functions, consistently meeting company SLA targets and minimizing product downtime. Successfully delivered error-free code on a quarterly basis.

**Click Labs/Jugnoo**

*Chandigarh, India*

Software Backend Engineer | NODEJS, MYSQL, MONGODB, REDIS

January 2017 - April 2020

- Led the development of Jugnoo - Autos, a hyperlocal Ride-hailing application, and improved API response times by 50 %.
- Added functionalities like ride-sharing and ride auto-accept to the driver application, thus increasing the total no. of rides.
- Architected an in-house solution for the Wallet Model, enabling users to seamlessly utilize their wallet funds for ride and order bookings.
- Designed database schemas for Jugnoo features like the Jugnoo subscription model, ride fares, in-ride coupons, and promotions.

## PROJECTS

**Distributed Fault-Tolerant Map-Reduce**

Fault-tolerant system featuring a master-worker architecture with dynamic task reassignment

- Successfully deployed and managed multiple workers, enabling parallel processing of tasks.
- Demonstrated robustness through MIT 6.824 inspired implementation and reference to the MapReduce paper by Google.

**NoteKeep**

A way of people to manage their Tasks

- Built with NodeJS, MongoDB, React, and Bootstrap with a focus on accessibility and inclusive design patterns.
- Wrote tests using Mocha, Jest, Testing Libraray, and Mock service workers.

**NewsDeck**

A Single-page news application developed using React.

- Built with NodeJS, React, and Bootstrap to provide for a user-friendly, responsive experience across all devices.
- Implemented real-time updates, infinite scroll and loading progress bar.