

ARYAN KANWAR

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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

- Led a pivotal overhaul of CareerBuilder's backend, transitioning from a monolithic architecture to a GraphQL-based microservices. This marked a major milestone, enabling a tailored profile experience for over 45 million users.
- Designed and developed an in-house MySQL Partition Keeper module, automating seamless maintenance of MySQL partitions. Achieved 30 % faster response times, reduced disk I/O load by 25 %, and cut storage costs by 20 %. This module enabled easy scalability for consistent performance with growing data volumes, significantly enhancing data management efficiency and system robustness.
- Designed an effective deduplication system utilizing Redis, resulting in a remarkable 95 % reduction in duplicate job applications. This initiative markedly enhanced data integrity on the CareerBuilder platform.
- Successfully implemented seamless testing integration with AWS CodeDeploy. This module now automates unit tests prior to deployment, promptly notifying the team via email in the event of any failures. This enhancement has led to an impressive 80% reduction in deployment-related issues, significantly bolstering 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 and worker recovery.

- 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

Notekeep is designed to simplify and enhance your note-taking experience.

- 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.