

# 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

## WORK EXPERIENCE

CareerBuilder	Remote
Software Developer Engineer II   NODE.JS, GRAPHQL, MYSQL, REACT, AWS	May 2020 - January 2023
<ul style="list-style-type: none"><li>• Spearheaded CareerBuilder’s transition from monolithic .NET framework to GraphQL-based microservices, customizing profiles for 45 million+ users.</li><li>• 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.</li><li>• Implemented an effective Redis-based deduplication system, reducing duplicate job applications by an impressive 95%,ensuring the data integrity.</li><li>• Developed a testing suite using Mocha and seamlessly integrated it with AWS CodeDeploy to automate unit tests. This integration led to a remarkable 80% reduction in deployment-related issues, significantly improving overall process efficiency.</li><li>• Efficiently coordinated operations across backend, frontend, and IT functions, consistently exceeding company SLA targets. Leveraged Datadog and CloudWatch for vigilant monitoring, achieving a 99.9% uptime and minimal disruptions.</li></ul>	
Click Labs/Jugnoo	Chandigarh, India
Software Backend Engineer   NODEJS, MYSQL, MONGODB, REDIS	January 2017 - April 2020
<ul style="list-style-type: none"><li>• Led the development of Jugnoo - Autos, a hyperlocal ride-hailing application.Boosted API response times by 50% by refining SQL queries using efficient database indexes and asynchronous processing.</li><li>• Programmed ride-sharing and auto-accept functionalities using JavaScript (ES6) Promises, resulting in a daily increase of 250 rides.</li><li>• Developed a ticketing system that improved the efficiency of the Customer Support team, resulting in a 30% reduction in query resolution time for ride-taking users.</li><li>• Collaborated within a team, actively contributing to the product’s development, and played a role in implementing crucial scaling components, including Load Balancer Setup, MySQL Master-Slave Architecture, Auto Deployment, and Scaling.</li></ul>	

## PROJECTS

Distributed Fault-Tolerant Map-Reduce
Fault-tolerant system featuring a master-worker architecture with dynamic task reassignment
<ul style="list-style-type: none"><li>• Successfully deployed and managed multiple workers, enabling parallel processing of tasks.</li><li>• Demonstrated robustness through MIT 6.824 inspired implementation and reference to the MapReduce paper by Google.</li></ul>
NoteKeep
A way for people to manage their tasks
<ul style="list-style-type: none"><li>• Built with NodeJS, MongoDB, React, and Bootstrap with a focus on accessibility and inclusive design patterns.</li><li>• Wrote tests using Mocha, Jest, Testing Libraray, and Mock service workers.</li></ul>
NewsDeck
A Single-page news application developed using React.
<ul style="list-style-type: none"><li>• Built with NodeJS, React, and Bootstrap to provide for a user-friendly, responsive experience across all devices.</li><li>• Implemented real-time updates, infinite scroll and loading progress bar.</li></ul>