ARYAN KANWAR

📞 (+1)-437-366-8299 | ✉ a2kanwar@uwaterloo.ca | 🏠 https://aryankanwar.github.io/ | in 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

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%, ensuring the data integrity.
- 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.
- 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.

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. Boosted API response times by 50% by refining SQL queries using efficient database indexes and asynchronous processing.
- Programmed ride-sharing and auto-accept functionalities using JavaScript (ES6) Promises, resulting in a daily increase of 250 rides.
- 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.
- 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.

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 for 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.