

Manraj Singh

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Education

Dalhousie University, Halifax, Canada

May 2021 – Graduating Aug 2022

Master of Applied Computer Science: Current GPA 4.2 on 4.3

Coursework: Cloud Computing, Machine Learning with Big Data, Advance Web Dev., Advance Software Dev.

- Designed and implemented RDBMS in JAVA with all the relational database features with query parser, query validation, execution, data storage in JSON format, and reading the data from files. The project was rated as one of the first 3 most optimal amongst the 25 participating groups.
- Developed "Volunteer Mart" Web project using MERN stack and deployed it on Google Cloud Platform (GCP), the application was appreciated as the most innovative project idea amongst all the participating groups.
- Developed a CAB booking management platform designed using Advance Java, implemented SOLID Principles and Abstract Factory Design Pattern in the application. The application was named one of the top 5 projects among 20 projects.
- Worked as a Teaching Assistant for Data Management and Warehousing Analytics course, wherein I addressed 45 students in-person once a week for 10 weeks.

Thapar Institute of Engineering and Technology, India

Aug 2015 - May 2019

Bachelor of Engineering, Electronics and Communication: Aggregate GPA 7.78 on 10

Coursework: Data Structures and Algorithms, Cloud Computing, Machine Learning, Operation System, Computer Networks.

- Capstone Project: Human Face Recognition and IoT controlled camera motion: In this project, I used Python and NodeJs. Human faces were detected in real-time using the Raspberry Pi camera module further mail is sent to the registered email IDs. Installed this in 5 houses which resulted in the security improvement of the houses.
 - Implemented AVL tree using core JAVA and printed the tree nodes in proper inverted tree form. Also, implemented Sudoku Solver in JAVA using the n-Queens Method. These were used by the professor to demonstrate the AVL tree and Sudoku Solver in subsequent batches comprising almost 150 students.
 - Searching for files and mailing to registered email ID (JAVA): To search memory for selected files (using DFS Algo) and mail to registered mail ID. This application was built to backup files with a single click for the ease of people with limited knowledge of technology.
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Experience

Full time 1.8

years

Amdocs - Associate Software Engineer

Jul 2019 - Apr 2021

- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability, and performance.
- Created an enhancement tool that helps in creating an XML format file of users' data by fetching the required data from the excel sheets. It was implemented to reduce the manual tasks performed to generate the XML files and reduced the total time of the task from 7-9 hours to less than an hour.
- Created an enhancement tool to add the missing attributes to the project store of all the orders by fetching them from the context store. This tool was used in all the environments (CI, CD and Production).

Synopsys Inc - Graduate Engineer Trainee

Jun 2019 - Jul 2019

- Worked on VC SPYGLASS CDC Synchronizer module used for testing chips circuit designs. I created a script to automate the manual task of running tests on the chip circuit and generated the output report. This helped in reducing the manual effort that was required to run the tests.
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Skills

- Data Structures and Algorithms, Problem-solving, Design pattern
- Java, SQL, ReactJS, MongoDB, NoSQL, NodeJS, ExpressJS
- GIT, CI/CD in Jenkins, Jira, JUnit, Testing
- AWS (Amazon Web Services)