

Darpan Patel

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EDUCATION

Dalhousie University, Halifax, Canada

Master of Applied Computer Science

GPA: 3.90/4.3

Dec 2020

Courses: Advance Software development, Advance Cloud Computing, Serverless Data Processing, Visualization, Advance Web Services, Mobile Computing, Database Management, Warehousing and Analytics.

SKILLS

Technical: Java, Python, C, JavaScript, HTML/CSS, React.js, D3.js, Git, Docker, MongoDB, MySQL, Unit Testing.

Product: Agile Methodology, Spring Web and boot, Android Studio, IntelliJ, Postman.

Data Skills: Pandas, NumPy, Matplotlib, PySpark, Neo4J (novice), Tableau (novice), Power BI (novice).

WORK EXPERIENCE

Software Developer, Intern

ITS Planners & Engineers Pvt. Ltd., Hyderabad, India

Jan – Jun 2018

- Worked on “**Red Light/Stop line violation detection system**” project. Improved the system by creating a tool to capture and transfer evidence of violations at traffic signals. Build **front-end** and **back-end** for the system.
- Communicated with clients to gather requirements and specifications of project and showing demonstrations of working modules.
- Integrated hardware and software at client site and deployed web application on client’s server hosted in cloud.

Utilized: **Java**, Servlet, PostgreSQL, Log4J 2, Junit, JavaScript, Git, FFmpeg library.

PROJECTS (For more visit: <https://github.com/Darpan313>)

Group Formation Tool

Jan – Apr 2020

- Developed web application in team of 4 members using Spring framework in Java, followed best practices and agile methodology to maintain quality of software using, **Test Driven Development (TDD)**, **CI/CD** and added logging features using Log4j 2 library.
- Used **design patterns** to adapt for future changes and maintainability of software and peer reviewed codes.

Utilized: Java, Git, Spring Web and security, Thyme leaf, Log4j 2, Junit, Mockito, GOF – Design Patterns.

Tourism App

Jan – Apr 2020

- Developed thin client Android and web application in team of 4 members and worked with **AWS cloud services**.
- Created **microservices** and deployed in multi container **docker** using AWS Elastic Beanstalk.

Utilized: Python, jQuery, Docker, Flask, AWS–Cognito, Elastic Beanstalk, Dynamo DB, S3, Load Balancing, Git.

Global Terrorism Visualization

Jan – Apr 2020

- Build interactive visual analytics system for **Geo-temporal visualizations** of global terrorism on **GTD** database.
- Applied data cleansing techniques on huge database with 135 attributes and visualized insights using **D3.js**.

Utilized: D3.js, HTML, CSS, Python libraries –Pandas, NumPy.

Database Design and Analysis of Dalhousie University

Sept – Nov 2019

- Created **ETL** pipeline for extraction of structured and unstructured data, transforming and structuring data to appropriate format, and loading it to database. Built database design for structured data.
- Performed analysis on visualization tools like **Tableau**, Power BI.

Utilized: Web Scraping, **Python**, Pandas, Spark, Database design, MySQL, MongoDB, Tweepy & News API.

EXTRA CURRICULAR

- Participated in **Government Technology hackathon** - 2019 at Halifax. Pitched idea and develop innovative solution to reduce accidents at crossroads. Collaborated with the team of 3 members.
- Qualified Round 1 of **Tata Consultancy Services – CodeVita** 2017, held on 13th July-1st August 2017, securing rank of **1228** among **99,473** participants. Round 2 rank 940.
- Spend time solving analytical problems by coding on various platforms, [Hackerrank](https://www.hackerrank.com) , [Codesignal](https://www.codesignal.com).