

Abhishek Uppe

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I want to enhance my skills and knowledge in Computer Science by continuous learning and contributing them to solve real-time problems, evolve in my career, and also explore more in my area of interest.

Professional Work Experience

- **ResMed** **Halifax, NS, Canada**
Software Developer (NodeJS, Typescript, ReactJS, Django, Java, AWS) *Jan 2023 - Present*
 - Currently Working as a Software Developer on the following project
 - **Developer Portal:** Working on the Developer Portal that eases the management of MicroServices, Libraries, Pipelines and Automated Documentation.
 - **External Portal:** Working on the External Portal that run periodically where it extracts Github MetaData for Analytics within the organisation.
- **IBI Group** **Hyderabad, India**
Software Developer (React, Python, Django, Java, PostgreSQL) *July 2018 - July 2021*
 - Worked as a Software Developer on the following projects
 - **ITMS : Intelligent Integrated Traffic Management System**
 - ITMS is a platform that provides various city specific services such as CCTV Camera's, Virtual Machine Board currently being used in Hyderabad, Toronto with following features.
 - **Multitenant Application:** Worked in creating a multitenant application that works as a SaaS service using AWS Infrastructure.
 - **Performance Improvements:** Worked on optimising API's using inhouse GraphQL like application that reduced the applications performance load by **30 percent**.
 - **Migration of Legacy Application:** Worked on the migration of Legacy ITMS application improving **architecture and application performance with respect in the backend**.
 - **CurblQ :**
 - CurblQ is a platform that helps cities better understand curbsides by using visualizing, managing curbside regulations, and improving the productivity of underutilized curbside spaces.
 - **Architecture Design :** Worked on architecture design aiming at creating a **multitenant, multilingual distributed system**.
 - **Map Algorithms:** Worked on creating custom Map Algorithms required in specific use cases such as getting nearest curbsides on the roads using **API's on large data set**, filtering curbsides in a specific area in using **PostgreSQL Procedures**.
 - **Integrating Map API's Services:** Worked on Integrating various Map APIs such as DeckGL, KeplerGL for data analysis and visualization of **large data sets**.

Academic Qualifications

- **Dalhousie University** **Halifax, NS**
Masters of Applied Computer Science, Grade: 4.00/4.30 *Sep 2021 - Dec 2022*
- **CVR College of Engineering (JNTUH)** **Hyderabad, India**
B.Tech, Computer Science and Engineering, Aggregate: 82.4% *2014 - 2018*

Skills

- **Programming Languages:** Python3, Java
- **Full Stack Technologies:** HTML5, CSS3, Javascript, React, NodeJS, SpringBoot, Django
- **Databases:** MySQL, PostgreSQL, MongoDB, AWS DynamoDB, Neo4J
- **DevOps:** AWS, Docker

Projects

Projects (Personal and Graduate)

- **Pathfinding Visualizer (Javascript, ReactJS, Redux, Typescript, HTML5, CSS3)**
 - The purpose of this project is to help users easily Visualize and Understand Shortest Path Graph algorithms. Algorithms implemented are **A*** , **Dijkstra's** , **Breadth First Search**.
 - **Github:** <https://github.com/uppeabhishek/pathfinding-visualizer/>
 - **Demo URL:** <https://uppeabhishek.github.io/pathfinding-visualizer/>
- **Document Manager (React, NodeJS, DynamoDB, AWS S3)**
 - The project aims at creating a document manager where an user can upload, download documents, extract text from documents and translate the documents. All the functionalities use remote AWS DynamoDB and other AWS Services.
 - **Github:** <https://github.com/uppeabhishek/CSCI5409-DOCSMANAGER>
- **Database Clone (Java)**
 - The project aims at replicating few SQL database features such as CRUD operations related to database, tables and replication database transactions using Java.
 - **Github:** <https://github.com/uppeabhishek/CSCI5408-DATABASE>

Achievements

- I was the team lead for the project on Smart India Hackathon, where we solved challenging problems posed by Government of India in a three day Hackathon.
- I was selected, completed the course of [Mission R&D](#), a non-profit organisation led by Microsoft, Adobe employees which makes students gain expertise in Computer Science Programming.

Portfolio, GitHub and Leetcode URLs

- Portfolio: <https://uppeabhishek.github.io/>
- GitHub: <https://github.com/uppeabhishek/>
- Leetcode: <https://leetcode.com/uppeabhishek/>