

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 provides a centralized service for all the API's within the organization and relevant parties. Developers and Relevant Users can test the API's on the fly, and the portal also provides documentation for API's specifications.
- **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/>