

Boston, MA 02215

# VIRAL PATEL

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## EDUCATION

**Northeastern University** Boston, MA

September 2019 – Present

**Master of Science, Computer Science**

**Overall GPA: 3.75 / 4.00**

*Related Courses: Programming Design Paradigm, Foundation of Artificial Intelligence, Web Development, Algorithms, Foundation of Software Engineering*

**University of Mumbai** Mumbai, India

August 2011 – July 2014

**Bachelor of Engineering, Computer Engineering**

*Related Courses: Soft Computing & Neural Network, Data structures, Operating System, Database management System*

## EXPERIENCE

**Software Engineer Co-op • Quick Base**

June 2020 – Present

- Working on enhancing timeline report (Gantt Chart) for the platform
- Front-end is designed using **React**, **Redux** and back-end API is developed using **C++**

**Senior Software Engineer • Prolifics**

Nov 2018 – Aug 2019

- Consulted for Health Insurance Company for creating claim processing infrastructures
- Created a unique solution to track Medicare claims using **ITX/IBM WTX** and **MySQL**
- Worked on **JSON**, **XML**, **CSV** and **ANSI X12** files

**Technology Analyst • Infosys Limited**

Jul 2014 – Nov 2018

- Consulted for Health Insurance Company to manage enrollment and claim processing
- Mentored team of four while managing production incidents
- Created custom claim validations using **C** and **Shell scripting** for **ANSI X12**, **CSV** files
- Re-designed claim extraction process which resulted in 80% reduction in turn-around time for incident resolution
- Received 3 professional awards for contribution and innovations in developing various automation tools which help edvenders to reduce incident creation by 30%

## SKILLS

Languages

Java • C++ • Python • C • Shell scripting

Web Technologies

React • Redux • JavaScript • HTML • CSS • REST

Database

MySQL • Oracle • MongoDB

## ACADEMIC PROJECTS

**Chat Application • Foundation of Software Engineering**

May 2020 – June 2020

- Slack like chat application created using different design patterns and agile methodology

*Technologies Used: Java, sockets, JavaScript, HTML, CSS*

**Chowk : Learning Forum • Web Development**

March 2020 – April 2020

- Open communication Q&A forum for computer science students and staff which is like Piazza or Blackboard with a bit of Stack Overflow mixed in

*Technologies Used: React, Redux, TypeScript, MySQL*

**White Board : LMS Solution • Web Development**

January 2020 – April 2020

- Learning management portal for faculty, students and admins for efficient management of courses and quizzes

*Technologies Used: React, Redux, TypeScript, MySQL*

**Personal Assistant Action Classifier • Foundation of Artificial Intelligence**

November 2019 – December 2019

- Classification algorithm to infer actions from input sentences, so required action can be taken by virtual assistant

*Technologies Used: Python, Keras, scikit-learn, pandas*

## OTHER PROJECTS

**Web Access Management Portal**

April 2020

- Portal that provides front-end to perform various CRUD operations on data present in database using API calls

*Technologies Used: React, Redux*

**Service Ticket Distributor**

January 2017

- Built proof of concept to distribute ServiceNow tickets based on keywords from short description using design thinking methodology and **R** language