|  |  |  |
| --- | --- | --- |
| **VIRAL PATEL**  Boston, MA 02215 | (857) 800-3362 | [patel.viral@northeastern.edu](mailto:patel.viral@northeastern.edu)  <https://www.linkedin.com/in/patelviralb/> | https://patelviralb.github.io/ | | |
|  |  |  |

**EDUCATION**

|  |  |
| --- | --- |
| **Northeastern University**, Boston, MA | September 2019 Present |
| **Khoury College of Computer Science** | Expected graduation: 2021 |
| Candidate for a Master of Science in Computer Science | **GPA: 3.7/4.0** |
| *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 in Computer Engineering |  |
| *Related Courses: Soft Computing & Neural Network, Data Structures, Operating System, Database Management System* | |
|  | |

**TECHNICAL KNOWLEDGE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Languages** | **:** | Java, Shell Scripting, Python, C | |
| **SCM & Version Control Tools** | **:** | Git, IBM Rational Clear Case | |
| **Web** | **:** | HTML, CSS, Bootstrap, React, Redux, REST | |
| **Database** | **:** | MySQL, MongoDB, Oracle Database | |
| **Tools** | **:** | IBM WTX (8.4.0.3), ITX (9.0), IntelliJ, IBM RAD, SFG, ServiceNow | |
|  | | |  |

**ACADEMIC PROJECTS**

|  |  |
| --- | --- |
| **Chowk** | Spring – 2020 |
| * Created an effective open communication Q&A forum for computer science students and staff. The forum is like Piazza/Blackboard with a bit of Stack Overflow mixed in. Front-end was developed using **React, Redux**, back-end endpoints were created using **Typescript** and **MySQL** was used as persistent storage. | |
| **White Board – LMS solution (Northeastern University)** | Spring – 2020 |
| * Developed LMS (Learning Management System) portal for faculty, students and admin using **React**, **Redux**, **Angular**, **Node.js**, custom **REST APIs**, **MySQL**,and **MongoDB** for efficient management of course work. | |
| **Personal Assistant Action Classifier (Northeastern University)** | Fall – 2019 |
| * Implemented classification algorithm using **Python**, **Keras** and **scikit-learn**, and **pandas** libraries to learn how digital personal assistants can infer actions from user input sentences, so required response can be given to users based on inferred action. | |
|  | |

**OTHER PROJECTS**

|  |  |
| --- | --- |
| **Web Access Management portal (Northeastern University)** | Spring – 2020 |
| * Designed a web access management tool for students to perform various CRUD operations on their data which lies on server, using **React**, **Redux**. | |
| **Service Ticket Distributor (Infosys Ltd.)** | Spring – 2017 |
| * Built a system to distribute incoming tickets in ServiceNow to different queues using **R** language and libraries to differentiate and assign the incoming ServiceNow tickets to different queues based on keywords in short description and other details of ticket parameters. | |
|  | |

**WORK EXPERIENCE**

|  |  |
| --- | --- |
| **Quick Base, Cambridge, MA** |  |
| *Software Engineer Co-op* | June 2020 – Present |
| * Working on enhancing timeline report type using **React, Redux** as front-end and **C++** as backend with temporary storage in **MS SQL**. | |
|  | |
| **Prolifics, Pune, India** | |
| *Senior Software Engineer* | November 2018 – August 2019 |
| * Created infrastructure and maps for Encounter Resolutions and Operations along with Claim Processing, ERA Processing in **IBM ITX** and **ITXA** to convert **ANSI X12**, **CSV**, **XML**, **JSON**, Fixed Length files. | |
|  | |
| **Infosys Ltd., Pune, India** | |
| *Technology Analyst* | March 2018 – November 2018 |
| *Senior System Engineer* | October 2016 – March 2018 |
| *System Engineer* | November 2014 – September 2016 |
| * Led EDI Managed Service team to analyze various process failures in production. | |
| * Created custom validations for various transactions using **C** and **shell scripting** for ANSI X12, CSV, Fixed length, XML files. | |
| * Re-designed claim extraction process which resulted in an 80% reduction in turn-around time for ticket resolution. | |
| * Developed enrollment automation tool using **IBM MQ, C, shell scripting** backend and **HTML, CSS, JSP** based web application to be used by the client to add new vendors for adding or updating vendor data for enrollment. | |