

# Viral Patel

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<https://patelviralb.github.io/>

## EDUCATION

- **Northeastern University - Boston, MA** September 2019 – December 2021  
Master of Science – Computer Science  
Related Courses: Algorithms, Large Scale Parallel Data Processing, Web Development  
**GPA: 3.66**
- **University of Mumbai - Mumbai, India** August 2011 – July 2014  
Bachelor of Engineering – Computer Engineering

## EXPERIENCE

- **Summer Technology Intern** June 2021 – August 2021  
*Barclays* Boston, MA
  - Created and deployed end-to-end **ITRS Geneos** infrastructure using various **AWS services** that will allow monitoring of Barclays business infrastructure, reducing initial setup & maintenance efforts
- **Software Engineer Co-op** June 2020 – January 2021  
*Quick Base* Boston, MA
  - Revamped customer-facing timeline report (Gantt Chart) UI used to visualize reports on Quick Base (Low-code/No-code) platform using **React.js**, **React Hooks**, **Redux** improving user interaction and usability by **80%**
  - Back-end APIs were designed using **C++** for Data retrieval to populate feature and perform CRUD operations based on user permissions or user role
- **Senior Software Engineer** November 2018 – August 2019  
*Prolifics* Pune, India
  - Consulted and designed solution to track submitted Medicare claims improving claim processing time by **30%**
- **Senior Software Engineer** July 2014 – November 2018  
*Infosys Limited* Pune, India
  - Led and mentored managed services team with 3 freshers for designing claim status tracking system reducing turn-around time for ticket resolution by **80%**
  - Automated enrollment processes using **Java**, **Shell Scripting**, **C** and **IBM MQ** message system improving enrollment processing time by **90%** and reducing enrollment request turn around time by **30%**

## TECHNICAL SKILLS

- **Languages:** Java, C, C++, Python, JavaScript, Shell Scripting
- **Technologies & Frameworks:** Hadoop MapReduce, Apache Spark, Spring, JPA, React.js, Redux, Node.js, RESTful Webservices
- **Database:** MySQL, MongoDB, Oracle, MS-SQL
- **Tools:** Git, JIRA, Confluence, IntelliJ, VSCode, Postman, IBM WTX, ITX

## PROJECTS

- **Distributed K-Means | Apache Spark, Scala, AWS EMR, AWS S3**  
Implemented sequential version of K-Means algorithm in distributed environment where one version of algorithm parallelizes computation for each  $k$  and another version performs clustering in single task parallelizing computation of different  $k$  values and the experimentation helped me understand query optimization logic used internally in Spark system
- **Chowk-Learning Forum | React, Redux, TypeScript, MySQL**  
Designed UI of Q&A forum for students and staff like Piazza or Blackboard with integration of Stack Overflow suggestions/solutions so that student do not have to wait for professor in case solution is generic improving student's efficiency to tackle problem by **40%**
- **White Board | React, Redux, Angular, TypeScript, Node.js, Spring Boot, JPA, MySQL, MongoDB**  
Full-stack Learning Management Solution for faculty, students and admins for efficient management of courses and quizzes improving professor's content management efficiency by **75%**
- **Service Ticket Distributor | R, Design Thinking, Machine Learning Algorithms**  
Begged **Insta Award** for Building solution to automate ServiceNow ticket distribution among teams improving team efficiency by **30%** and reducing ticket turn-around time by **20%**