Projects

1. Tax and Bill Payment Re-engineering (2018)
   Company – TCS – Bank of Montreal
   Role – Team lead and Software Engineer

   I was responsible for decommissioning Tax and Bill pay legacy module to convert it into restful architecture. I led the software team of 5 individuals to develop code that was written in a clean, efficient and followed a layered architecture with clean separation of business logic over Rest channel, EJB Wrapper, EJB and DAO layer. Moreover, separated cross cutting concerns using Spring AOP Framework. Finally integrated the restful services into Frontend Angular 4 Application.
   Deployed the rest layer on openshift pods, while EJB and Database code on WAS 9 and WAS 6 servers.
   I was also responsible for writing junit test cases using easy mock framework to mock EJBs.

2. Relational Database information migration to Graph Database (2020)
   Company – Juniper Networks
   Role – Software Engineering Intern

   Build and Release Full Stack Web Application for Querying the Graph Database
   • Developed Python Command line tools and GraphQL APIs to automate fetching of information from build systems and storing them in graph databases for effective traversal, thereby eliminating costly join operations as in Relational databases and increasing performance.
   • Developed Full Stack Query framework using Bidirectional Graph Algorithms on graphs stored in distributed Dgraph database.
   • Developed Django microservices and user interface in Vue.js for building interface for Dgraph query framework, containerized all the components while attaching a persistent volume to Dgraph and orchestrated using Kubernetes.