AVI TIWARI

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**Education**

**Northeastern University|** Boston, MA|GPA-3.54

Master of Science in **Information Systems (**Expected )June 2020

**Relevant Courses**: Application engineering and design, Database management and design, Algorithms and Data structures, Web Development Tools and Methods, Network Structure & Cloud Computing, Web design/User Experience

**Lakshmi Narayan College of Technology & Science|** Bhopal, India

Bachelor of Engineering in Electronics & Communication Engineering June 2013

**Technical Skills**

* **Programming Languages** Java, J2EE, Selenium, JavaScript, Typescript ES6, Python
* **Web Technologies** HTML5, CSS, SCSS, SASS Servlet, JSP, jQuery, Hibernate, AJAX, Springboot,

Spring MVC, NodeJs, Django Framework, JDBC, RXJS, Angular.js ,ngRX

* **Databases** MySQL, Oracle, SQL Server, TSQL, Postgres SQL, MongoDB, DynamoDB, RDBMS
* **Tools** Eclipse, IntelliJ, NetBeans, Visual Studio, Jira, Rally, Balsamiq, Axure, Moqups

Postman, Jenkins, Maven, Junit, Jmeter, PyCharm

* **Version Control** Git, Bitbucket,
* **Operating System** Windows, Ubuntu, CentOS, Linux,
* **Cloud Services** Azure, AWS, SES, SNS, Circle-Ci, CLI, Docker, Packer, Lambda, WAF, RDS, SDK

**Experience**

**Siemens PLM** Lebanon, NH

**Software Engineer Intern** Sept2019-Jan2020

* Delivered a serverless application for Siemens model repository to be used by internal teams
* Secured authentication using JIRA API and designed location-based file storage and upload requests
* Improved user inputs to JSON from XML for better view and storage of parameters
* Enhanced Search functionality and indexed files to return full search based on user search criteria’s

**Tech Mahindra (AT&T)** Pune, India

**Senior Software Engineer** Sept2013-Aug2018

* Designed, developed, and implemented UI for **web and mobile - iOS and Android HTML** and unit tested using Selenium
* Integrated online account management using JAVA framework reducing manual work to 40%
* Analyzed **Rest** **API’s** using **Postman** to debug backend for issues in **service layer** reducing downtime by 20%
* Implemented **Agile Methodology** and followed **Sprints** for integration testing, accessibility testing, regression testing
* Examined cause of defect by doing **root cause analysis** and ensured 0% defect slippage to production
* Groomed new associates, conducted knowledge transfer session’s, supervised them on Release projects

**Academic Projects**

**Northeastern University |** Boston, MA

**SafeBank |Web application- Angular, Nodejs, JavaScript, MongoDb, ChartJs, ngRX, SCSS, Material UI** April2020

* Developed a banking application with CRUD functionality with User authentication and registration
* Implemented Frontend using Angular, stored collection in MongoDb with angular HTTP client module for RestAPI’s
* Integrated external Api’s to show charts using ChartJs for visual representation, generated **PDF** for transactions

**Spreadsheet Application| RXJS, JavaScript, NodeJs, HTML,CSS, SCSS** Feb2020

* Developed a spreadsheet application with options to import and export, add row, add column, delete row & column

**Backend Application Development- Spring Boot/Rest Api’s and Amazon Cloud Services** May2018-Aug2018

* Deployed application using **CircleCi** for continuous code deployment pipeline reducing manual work by 50%
* Implemented infrastructure as service (IaaS) with **AWS CLI and Cloud Formation**-VPC, Subnets, Internet Gateway
* Deployed application on **Centos** with AWS AMI and managed hosted zones using Route53, stored data on S3 RDS
* Integrated services like Dynamo DB, AWS RDS, AWS Lambda (FaaS), CloudWatch, SNS, SES, generated certificate
* Auto-scaled application for load balancing tested using **JMETER** also placed web application firewall to protect

**Application development - Spring MVC/Hibernate and JSP’s** April2018

* Created a web application for online searching and ordering from restaurant leveraged user search criteria
* Enacted annotation-based mapping **Session-factory**, **DAO** **Servlets**, **HQL queries** and **Hibernate** session
* Applied Basic Authentication with password hashing using **BCrypt** and **salt** and **Token Based Authentication**
* Integrated **validation class**, **exception handling**, **google SMTP** for sending and receiving mails
* Produced **PDF view** to download order summary utilized **AbstractPDF view** and unit tested code withJUNIT