

Harsh Vardhan Singh

Portfolio: <https://singh-harsh.github.io> | singh.har@northeastern.edu | 617-487-2096

TECHNICAL SKILLS

Languages:	Java, C#, GO, TypeScript, JQuery, HTML, CSS, SQL
Frameworks/Web Technologies:	Angular, Spring MVC, Spring Boot, Hibernate, REST API, JSP
Databases:	Microsoft SQL Server, MySQL, MongoDB, PostgreSQL, Oracle
Tools:	AWS, Ansible, Jenkins, BitBucket, Git

PROFESSIONAL EXPERIENCE

Software Engineer – Casenet LLC, Bedford, MA

Jul 2019 – Jan 2021

- Developed the capability to integrate multiple tools with internal web application which allowed automation along with optimization in the application release cycle
- Displayed several metrics like build duration, PR cycle times, average line of codes, merge time, number of files changed & merge frequency utilizing different types of graphs in Angular ngx-charts also saving \$1000 a month to our team
- Created GO based Rest APIs to be used for configuration of the services deployed on the application infrastructure
- Automated build and deployment using Jenkins to reduce human error and speed up production processes
- Used Ansible Playbooks to setup Continuous Delivery Pipeline including provisioning AWS environments
- Migrated company-wide available scripted pipelines to the declarative pipelines using Jenkins shared library
- Visualized dashboards showing companywide KPIs which required analyzing huge JSON data using Angular ngx-charts

Software Engineer Intern – Monster Worldwide, Weston, MA

Jun 2018 – Aug 2018

- Automated the process of invalidating the Amazon Machine Images (AMI) using Web API with Test-driven development
- Integrated SignalR with AWS to fetch real-time status for CloudFormation Stacks creation
- Followed Agile methodology to develop Spring MVC and Hibernate application adhering to SDLC process

Software Developer – Tata Consultancy Services, Pune, India

Mar 2014 – Jul 2017

- Worked extensively on Spring Boot for building RESTful web services to manipulate dynamic datasets using AJAX calls
- Supervised the team, held code reviews, met deadlines and successfully achieved 99% customer satisfaction
- Proposed and implemented automation of status report generation and submission to reduce time-effort by ~20%
- Automated the manual task of repetitive searching of data from Big Data, thus reducing the lead time
- Submitted proposal for developing a user interface to directly feed data to database reducing manual efforts by ~30%

ACADEMIC EXPERIENCE

Teaching Assistant - Northeastern University

Sept 2018 – Apr 2019

Courses: Web Development Tools & Methods, Parallel and Multithreading Program, Application Engineering Development

- Evaluated student's performance and enhanced their learning by optimizing a wide range of instructional approaches
- Mentored more than 50 junior students, created teaching material and conducted labs web development courses

ACADEMIC PROJECTS

Follo – Web Application using MEAN Stack

Jan 2019 - Apr 2019

- Designed and implemented web application using MEAN stack to create communities, posts and token-based login
- Enhanced user experience by adding features like quick search, one-click payment using jQuery, Angular and AJAX
- Achieved authorizations using the JWT token-based login and sign up

Network Structures & Cloud Computing

Sept 2018 – Dec 2018

- Designed and built a fault-tolerant web application hosted on a cloud computing platform (Amazon Web Services)
- Gained understanding of DevOps and Site Reliability Engineering roles
- Generated an AWS CloudFormation template to create the infrastructure for a file storing web application utilizing AWS services like EC2, S3, RDS, DynamoDB, Lambda, Load Balancer, Security Groups, CloudWatch, IAM, SNS and SES
- Incorporated Continuous Delivery using GitHub, Travis CI, and Amazon CodeDeploy

EDUCATION

Northeastern University, Boston, MA

Sep 2017 – May 2019

Master of Science in Information Systems

Relevant Courses: Application Engineering Development, Data Structures & Algorithms, Networking & Cloud Computing, Web Design & Development

Anand Engineering College, Agra, India

Jun 2008 – Jun 2012

Bachelor of Engineering in Information Technology

Relevant Courses: Java, Object-Oriented Programming (OOPs), Web Technology, Database Management Systems