JAGMANDEEP KAUR

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TECHNICAL SKILLS

Languages:	Java, J2EE, JavaScript, HTML5, CSS3, SQL, Python, Shell Scripting
Frameworks:	Spring MVC, Hibernate, Spring Boot, jQuery
Database and Servers:	DB2, MongoDB, MySQL, SQLite, Apache Tomcat, Redis
Tools Used:	Eclipse, Intellij, Netbeans, Jira, Stash, Git Bash, Putty, GIT, circleci, mTools, Ansible, AWS, Docker, Kubernetes, Jenkins, ElasticSearch, Helm

EDUCATION

Northeastern University, Boston, MA   GPA 3.85   Expected Aug 2020
(Master of Science in Information Systems)
<u>Courses:</u> Web Design and User Experience Engineering, Web Development Tools and Methods, Program Structure and Algorithm, Network Structure and Cloud Computing, Advance Cloud Computing

Guru Nanak Dev Eng. College, Ludhiana, India   GPA 3.9   July 2015
(Bachelor of Technology in Computer Science)

EXPERIENCE

Graduate Teaching Assistant, Northeastern University   *Jan2020-Apr2020*
- Assist Professor as Teaching Assistant for Network Structure and Cloud Computing (CSYE6225) by conducting TA hours, code review sessions, and grade assignments.
- Provide feedback and guidance to students by conducting one on one and small group meetings sessions to resolve any difficulties faced by students.

NetBrain Technologies, Burlington, Boston (Software Development Research Co-op)   *Aug 2019-Dec 2019*
- Responsible for software implementation, enhancement and bug fix
- Developed a standalone application to create dynamic pages on confluence by fetching data from MongoDB
- Successfully developed a python cli tool for the health check of the Netbrain Application.
- Created Ansible playbooks for the successful patch deployments on Windows server

Tata Consultancy Services, Noida, India (Java Developer)   Nov 2016-July 2018
- Responsible for requirement analysis, creating design, providing technical solutions, UTC creation, UIT, Defect Fixing
- Accomplished end-to-end **encryption and tokenization** of Plain Card data into unreadable form called ciphertext using AES (session) encryption which improved card security at Clients POS terminals
- Worked on integrating the **SQLite database** for an enhancement to keep records of unsuccessful transactions
- Developed a Java framework using **Collections** and **Interface** for parsing response received from third party for transactions
- Implemented **Java framework** to remove the dependency from hitting actual database (DB2) every time a card is swiped boosting the performance of the POS terminals by 15%
- Led offshore team of 6 members during critical projects

ACADEMIC PROJECTS

Advance Cloud Computing-Cluster Orchestration using Kubernetes   Spring 2020
- Learned to architect and build highly available and reliable applications on hybrid cloud platform using AWS and Kubernetes
- Implemented continuous integration and deployment of containerized applications to Kubernetes using Jenkins
- Deployed a highly available, auto-scaling Kubernetes cluster using Ansible playbooks.
- Deployed Prometheus for metrics and ElasticSearch, Kibana stack for logging using Helm Charts.

Files on Cloud (Spring Boot, AWS, Namecheap, GitHub, Circleci, Postman)   Summer 2019
- Created an **AWS CloudFormation** template to create the infrastructure **Stack**s for the Spring Boot application
- Infrastructure: EC2 instances, S3 Bucket, RDS, DynamoDB, Security Groups, IAM Resources
- Established a continuous deployment pipeline for the web application using Github, Circleci and AWS CodeDeploy
- Stored the user-specific files in S3 bucket and its metadata in AWS RDS

Job Search Portal (J2EE, Spring MVC, Hibernate, Maven, Bootstrap, HTML5, CSS3, MySQL)   Spring 2019
- A **Spring MVC** web application that allows the communication between the job seekers and employer
- Hibernate annotations-based mapping for enhanced database interaction with MySQL