Deepika Kumari Jha

INFORMATION SYSTEM GRADUATE STUDENT ·

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Education

Northeastern University, *MS in Information Systems*	GPA: 3.78/4.0	Fall 2020 - Present	*Seattle, USA*
Guru Nanak Dev University, *Bachelor of Computer Application*	GPA: 3.3/4.0	2012 - 2015	*Amritsar, India*

Technical Skills

Programming Languages	Java, JavaScript, Python
Web Technologies	JSP, HTML5, CSS, Bootstrap, React, XML, JSON
Backend Technologies/frameworks	Spring-boot, Maven, Express, Node.js, Mockito, Server(Tomcat, JBOSS)
Databases	Oracle 12c(RDMS), MySQL(RDMS), MongoDB(No-SQL), SQL
Cloud Technologies:	AWS EC2, IAM, AMI, S3, EBS , Terraforms, Packer

Academic Projects

WebApp(Java, SpringBoot, Maven, JPA, REST API, MySQL, POSTMAN, AWS, Git) *Feb 2021- Present*

- Developed a web application for selling and buying books.Used Spring-Boot framework for creating REST API GET/POST/PUT/DELETE for users and books. Used Basic Auth for token based Authentication on API's.
- Used Mockito framework for writing Unit and Integration tests.Used POSTMAN for testing REST API's and Git workflow for Version Control.
- Used Packer and Terraform for AWS AMI build, VPC creation with Subnets, Routes,Security groups,Internet Gateway and S3 buckets.
- Built CI/CD pipeline using GitHub workflow to deploy code in EC2 using CodeDeploy. Planning to use AWS CloudWatch for monitoring.

Hospital Management System(Database Design, MYSQL, SQL,Tableau) *July 2020- Aug 2020*

- Designed and Implemented Database for hospital using MySQL(RDMS).Loaded master data and transactional data through SSMS.
- Implemented Stored Procedures, Functions, Triggers Computed columns, Views and complex SQL joins to load and manipulate data.
- Modeled ERD diagram and Normalized data to 3NF to eradicate data redundancy.
- Integrated it with Tableau to generate dashboard/reports to gain insights in data.

Independent Projects

CONNECT(React, Redux, Node, Express and MongoDB) *Feb 2021- Present*

- Built a full stack (MERN)social networking app "CONNECT" for employees to comment and post.
- Used React, Redux,Node.js, Express MongoDB.Created an extensive backend API with Express.js.Used Stateless JWT authentication.
- Integrated React with Express backend and applied modern practices like React Hooks, Async/Await and Redux for state management.
- Planning to deploy on Heroku with postbuild script.

Work Experience

System Engineer, Tata Consultancy Services *Jun. 2018 - Aug. 2020*

- Developed distributed Java application to check efficacy of given drug in clinical research. Used .Net for front end, used Spring-boot framework for creating REST API for doing operations GET/PUT/DELETE/POST operations in Oracle19c database. Used DAO design pattern to segregate business logic from persistence layer. Written multiple python scripts to automate the jobs at Tomcat. Used SSH Linux shell commands to communicate with Linux server. Integrated application with Tableau for visualization.Used HP ALM Testing tool for Unit and Integration Testing. Fixed critical bugs in defined SLA. Scaled the existing architecture.
- Built data exchange platform between TPO and Client using React, Java, Spring-boot, Hibernate, Forefront Identity Manager, Aspera API and Aspera connect user plugin. Used HPALM for Unit/functional/Regression Testing.
- Other responsibilities: Writing SOP(Standard Operating Procedures), Developing, Debugging, Troubleshooting, Maintaining clients application software and system management tools.

Assistant System Engineer, Tata Consultancy Services *Jun. 2015 - Jun. 2018*

- Written multiple Java modules to automatically resolve tickets to add and delete users from the database and updating it to ticket tracking tool Service Now, leading to higher completion rates with accountability and efficiency. Java module reduces human effort by 82%.
- Written a java library for merging two different reports(XML file>1 GB) coming from incompatible databases and generating formatted reports using java, SAX Parser, Macro and Apache POI.This library decreased manual effort by 85%.
- Developed java utility to send notification of pending mandatory training of TCS associates working under client to proactively notify team members regarding their training due dates to avoid any penalty. Proactive notification reduced the chances of training miss by 74%