

# Tushar Kumar

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<https://github.com/tushar2805>

<https://tushar2805.github.io/portfolio/>

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## University of Texas at Dallas, Texas

Master of Science in Information Science, GPA: 3.70/4.0

May'20

Course Work: Object Oriented Programming, Advanced Algorithms, Data Management, Machine Learning, Data Warehousing, Data Structures, Operating Systems

## Visvesvaraya Technological University, India

Bachelor of Engineering in Electronics and Communications, GPA: 3.60/4.0

June'14

## TECHNICAL SKILLS

**Technologies:** Python, Java, JavaScript, REST, HTML5, CSS, Unix, AWS, Groovy

**Databases:** MySQL, SQLite, Oracle, SQL Server

**Software Tools:** Postman, Hadoop, Spark, Git, Jenkins, Power BI, Ansible, Docker, Kubernetes, Jira, Tomcat, Maven, Visual Studio, Eclipse, JDBC

## WORK EXPERIENCE

### Software Engineer Intern

May'19-Nov'19

Wellmark Blue Cross Blue Shield, Des Moines, Iowa

- Developed, designed and built a web application for teams and employees performance using Python and MySQL.
- Assisted ERP systems users with data conversion, data validation, and development of test/UAT scripts.
- Prepared business user specifications for Central Repository project and worked with teams on technical specifications.

### Software Engineer

Oct'14-July'18

Accenture, Bangalore, India

- Developed RESTful web services in Java following the Microservices architecture in Spring Boot.
- Integrated the application with Spring-MVC using Spring Boot, Spring Dependency Injection, and Spring Annotations.
- Developed solution designs in collaboration with software architects that improved process efficiency by 150% and reduced costs by \$300K.
- Automated daily build deployments using Jenkins CI/CD and reduced process time of 3-4 hours per build to 40-50 minutes.
- Supported testing on 3+ large-scale projects by creating scripts in Python to refine solutions and ensure they fit the purpose and match the customer's needs. This resulted in \$1M savings for the client.

## GRADUATE ACADEMIC PROJECTS

### Order Management System – Java, Spring boot, Kafka, PostgreSQL, Swagger, Docker

- Devised and developed an order management system to get and post the single and bulk order.
- Implemented bulk order creation and updating using Kafka to achieve Asynchronous mechanism.
- Used Postgres database as the storage of data.
- Documented the REST endpoints using Swagger and created the container of the application using Docker.

### Shopping Cart Web Application – Java, Spring MVC, Hibernate, Maven

- Developed an online shopping cart application using Spring framework. Used MySQL for backend dB and designed the UI using CSS, HTML and JavaScript.
- Used Maven to build the war file and deployed it on Tomcat.

### Blogging Website – Django, Python, SQLite

- Implemented a blogging website application using Django framework which performed all CRUD operations.
- Supports multiuser blogging, commenting, profile management and other operations.
- Established a back-end connection using SQLite.

### Pizza Point of Sale – Java

- Simulated a pizza restaurant employing object-oriented concepts like Encapsulation, Inheritance and Polymorphism.
- Implemented GoF design patterns namely – Decorator for adding toppings, Builder for specifying extras, Factory for creating pizzas and Template for forming pizza creation steps.

### Online Hospital Management – SQL Server Management

- Designed a database for medical personnel and patients of an Indian hospital to avoid loss of data due to manual entry and to store patient's medical history.