

# SHRESTH PAL

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## Education

### University of Texas at Arlington

Master of Science in Computer Science

Aug 2021 – May 2023

GPA : 3.83/4.00

### Jaypee Institute Of Information Technology, India

Bachelor of Technology in Computer Science

Aug 2015 – May 2019

## Technical Skills

**Languages:** Java, JavaScript, Python, C++, Bash, HTML, CSS, SQL

**Databases/Web Technologies:** MySQL, MongoDB, Hadoop, DynamoDB, CosmosDB, Spark, Kafka, Redis, REST API

**Frameworks/Tools:** Spring Boot, J2EE, NodeJS, ReactJS, Vue.js, Flask, Jersey JAX-RS, GraphQL, JIRA, Kubernetes

**Cloud Technologies & DevOPS:** AWS, EC2, S3, Azure, Google Cloud Platform (GCP), Git, Docker, Jenkins

## Work Experience

### Software Engineer

Sep 2022 – Present

UTARI, Fort Worth, Texas

**Tech Stack:** Java, Spring, Android, ReactJS, MongoDB, AWS, REST, Airflow, OAuth, Kubernetes

- Designed and developed a Cloud application for data extraction from Android Wear devices using Java REST APIs.
- Extracted health metrics like sleep hours, heart rate, etc and published them on the dashboard.
- Used OAuth 2.0 Authorization Framework for the application development.
- Created REST APIs in Spring and extracted data from Fitbit's cloud platform and Google Health.
- Implemented an end-to-end data pipeline using Apache Airflow **reducing data ingestion time by 40%** and ensuring timely availability of high-quality health metrics.
- Integrated machine learning models with SageMaker enabling automated model deployment and real-time monitoring.
- Developed a dashboard in React.js to display metrics.
- Worked with MongoDB database and wrote MQL queries (MongoDB Query Language).
- Worked with Git version control system and used AWS EC2 for the deployment.
- Refactored and modularized an existing code base into reusable components.
- Deployed applications in automated deployment using CI/CD pipeline on Jenkins.
- Implemented container management solutions such as Kubernetes and Docker, ensuring seamless deployment and scaling.

### Software Developer

July 2019 – Feb 2020

NTT Data Services

**Tech Stack:** Spring Boot, Java, PostgreSQL, MVC, Elastic Search, Azure, Redis, Docker

- Built and deployed enterprise web applications using Java Spring Boot.
- Added elastic search feature in e-commerce websites and **reduced the average search time by 50%**.
- Worked with PostgreSQL database and wrote SQL queries, while utilizing JDBC and JPA for database connectivity and object-relational mapping.
- Developed and maintained Microservices running on Azure, enabling **10+** enterprises to efficiently manage content and utilize a user-friendly click-and-drop interface.
- Used Mockito framework and wrote Junit test cases and integration tests.
- Employed caching mechanisms with Redis to optimize performance & reduce database load, improving response times.
- Collaborated with cross-functional stakeholders to build projects using an agile framework.

## Academic Projects (University Of Texas at Arlington)

### Student Academic Portal | JavaScript, NodeJS

December 2022

- Developed a website for University of Texas using MVC model and NodeJS framework.
- Wrote APIs using REST framework and wrote service layer, business logic and created Data access Object classes.
- Wrote Unit and Integration test cases using JEST Framework and utilised Mocking Function API.
- Scheduled, updated and allotted tasks to the team mates as a Scrum Master.

### ChatGenius | Microsoft BOT Framework, Sklearn, Azure

October 2022

- Designed and developed an end-to-end chat application on Azure using Microsoft BOT framework and MVC architecture, enabling users to place meal orders, while incorporating Machine Learning techniques such as Language Understanding Intelligent Service and Bing Spell Check API to enhance the BOT's intelligence.

### DropBox Application | Java, Multithreading, RPC

April 2022

- Constructed a multi-threaded Dropbox-like synchronized storage service to Upload, Download, Delete and update files and maintain optimal data retrieval speeds.
- Synchronized folders on the client side, e.g., creating a new file, etc. were reflected on the server side automatically using RPC-based communication.