

# Shipra

North Carolina, USA | shipra@charlotte.edu | +1 7048310606 | in/shipra-sh

## EDUCATION

**MS in Computer Science, University of North Carolina at Charlotte (CGPA : 3.7/4)** North Carolina, USA | 2024-2026  
Coursework : Machine learning, Visual Analytics, Algorithm & Data Structures, Software System Design and Implementation

**B E. in Electronics and Telecommunication, Army Institute of Technology (CGPA : 3.7/4)** India | 2017 - 2021  
Coursework : Data Structures and Algo, Operating System, Object oriented Programming

## TECHNICAL SKILLS

**Languages:** C, C++, Java, Python, SQL, HTML/CSS.

**Tools and Technologies:** Spring Boot, Microservices, Flask, MySQL, Google Cloud Platform (GCP), Kubernetes, Apache Airflow, Terraform, Dataproc, Cloud Storage, IAM, PubSub, Git, JUnit, JIRA, ServiceNow, WordPress, CI/CD, Linux.

**Skills:** Agile Software Development (Scrum, kanban), Object-Oriented Programming (OOP), Model-View-Controller (MVC) Architecture, RESTful Services, Web Services, DAGs, API Design & Development, version control.

**Certification:** [Google Cloud Certified Associate Cloud Engineer](#)

## WORK EXPERIENCE

**Deutsche Bank** Mar 2024 - July 2024

**Software Engineer 2** [Technologies : Java, GCP, Airflow, CI/CD, Storage, Microservices] Pune, India

- Led a reporting project for the substantiation of internal accounts, ensuring accuracy, regulatory compliance, and risk management.
- Migrated a Regulatory Reporting Application from on-prem to GCP using Terraform, improving scalability and reducing downtime.

**Deutsche Bank** Oct 2022 - Feb 2024

**Software Engineer** [Technologies : Java, Python, SQL, Spring Boot, MVC] Pune, India

- Developed a Regulatory Reporting Application for Bundesbank that handled transactions worth over € 475 million annually, facilitating annual audits and ensuring 100 % compliance with regulatory standards.
- Successfully migrated a critical legacy banking application from Mainframe to Java Spring Boot and Angular, significantly modernizing the tech stack and enhancing overall system performance by 40%.
- Designed and implemented RESTful APIs using Java Spring Boot, significantly streamlining internal account substantiation processes. Bolstered protocol conformity, augmented operational functionality, and maintained alignment with legal frameworks.
- Crafted intuitive UIs with Angular, improving user engagement and operational efficiency for banking applications in Germany.
- Mentored 5+ junior developers and conducted code reviews to enhance team performance and improved team code quality by 18%.

**Deutsche Bank** July 2021 - Sep 2022

**Software Engineer** [Technologies : Python, Flask, MySQL] Pune, India

- Automated data transfer between services in a Regulatory project using Control-M file watcher. This automation increased operational efficiency and reduced the need for manual intervention, streamlining processes effectively.
- Enhanced system reliability and performance by improving APIs with Python and Flask.

**Digital Persistent** May 2020 - Jun 2020

**Software Engineer Intern** [Technologies : Wordpress, MySQL, Javascript] Remote, India

- Designed and built a responsive website using WordPress, JavaScript, and MySQL. Enhanced the platform's content management capabilities and overall site functionality, leading to a more dynamic and user-friendly experience.
- Boosted the organization's online presence and streamlined content updates by reducing page load times by 30%.

## PROJECTS

### Real-Time Collaborative Coding Platform

- Engineered a collaborative code editor that enabled 10+ users to edit documents in real-time, enhancing team productivity by facilitating instantaneous feedback and reducing project turnaround time by approximately 20%.
- Introduced a caching mechanism and socket programming to optimize performance and ensure seamless user synchronization.

### Conference Scheduling using Genetic Algorithm

- Applied an AI genetic algorithm with mutation, evolution, and crossover to solve the NP-hard Conference Scheduling problem.
- Implemented the solution with core Java to address both hard and soft constraints efficiently.