

# Rosy Banerjee

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## EDUCATION

**Master of Science in Information Technology** Dec 2023  
Arizona State University, Tempe, Arizona 3.78 GPA

**Bachelor of Engineering in Computer Science** May 2019  
Arizona State University, Tempe, Arizona 7.46 GPA

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, Bash Shell, Go, Scala, SQL, HTML, CSS, Typescript.

**Frameworks/ Technologies:** Java Spring Boot, Hibernate, Heroku, Docker, NodeJS, React, Bootstrap, Linux Admin, GitHub.

**Cloud Technologies:** AWS - EC2, EBS, S3, CloudWatch, CloudFormation.

## PROFESSIONAL EXPERIENCE

**Infosys, India: Software Engineer** Mar 2020 - Dec 2021

- Worked as a **DevOps Engineer** in the Finance Management Business Unit of Citibank to develop microservices using **Spring Boot** and Maven.
- Devised an information portal website for tracking critical finance data attributes from payment systems using Apache **Spark** Streaming and **Kafka**.
- Dockerized service components leveraged Docker networks to connect the backend service to a **MySQL** database.
- Optimized web traffic using Nginx Server Configuration to create reverse-proxies and redirect API to defined domains.
- Created a **CI/CD** pipeline using Bitbucket to automate Service Builds and Database Migrations in Prod and Non-Prod Environments.
- Fixed functional/performance bugs and engineered test-suites to automate code-checks during CI/CD builds, thereby increasing code integration time **by 20%**.
- Followed Scrum Agile methodology by using **JIRA** to track the progress of the project and Git for version control.
- Deployed artifacts on **AWS EC2** instances and an **AWS RDS** instance (of MySQL) for data storage and management.
- Used **Ansible** to manage configuration files across multiple servers or environments by updating configurations and monitoring the configuration status.
- Deployed the information portal on **Amazon EC2** instance and created a second image of the EC2 instance and deployed it in another AWS region.

**Infosys Ltd, India: Software Engineer Intern** Dec 2019 - Feb 2020

- Implemented **Spring Boot** components of an E-Commerce website to design service side logic of user data.
- Incorporated **JPA ORM** for database transactions leveraging Database Connection Pooling making the data retrieval process faster.
- Added **JUnit** test cases for all applications by maintaining code coverage of 90% and solved defects by refactoring code.

## ACADEMIC PROJECTS

**Chat Box App, Class Project** Jan 2022

- Developed a Chat Server in **Python**. Executed TCP Server Socket for the Server and TCP Client Socket for the Client connections.
- Programmed an interactive UI using **HTML/CSS** and **JavaScript** for communication of messages between users.
- Leveraged **MySQL** as the main database to store relational data between users and corresponding messages.
- Scheduled CRON jobs in Redis-server to display real-time user messages and display latest message receipts on the GUI. Programmed using **Python, HTML, CSS, JavaScript**.

**Database Management System for Hospital Network, Class Project** Aug 2022

- Launched a web app for managing a network of hospitals related to patient and equipment data of hospital.
- Executed SQL triggers and stored procedures and functions for report generation and display on a responsive UI (with **HTML/JavaScript**).

## WORK EXPERIENCE

**Arizona State University, Tempe: Graduate Student Assistant for CSE 330 and CSE 180** Jan 2023 - Present

- Assisting 132 students by providing quality feedback for the submissions and holding weekly office hours to resolve issues faced by students. Managed to resolve over 200 tickets on Salesforce, raised by students in the course.