



Sayantana Banik

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EXPERIENCE

Software Engineer Intern

June 2024 – Aug 2024

LexisNexis, Raleigh, NC, USA

- Developed server-side functionalities for implementing API calls using C#.
- Implemented the client-side of a web application using TypeScript, HTML, and CSS with the Angular framework.
- Developed an application to compare JSON files, identify discrepancies, and generate an updated JSON file.
- Enhanced the efficiency of SQL queries and stored procedures using SQL Developer.
- Resolved production defects by tracing the application from the controller to the service layer.
- Achieved over 80% code coverage for service-level components, enhancing software reliability and robustness.
- Developed a data pipeline on AWS EC2 to transfer legal data across various geographic regions, automated with scheduled cron jobs.
- Authored unit and integration tests using Jest and Angular Testing Library to ensure high test coverage.
- Utilized Git for version control and Confluence for collaborative documentation within an Agile framework.

Software Engineer

Sep. 2020 – July 2023

Cognizant Technology Solutions India Private Ltd, Kolkata, West Bengal, India

- Implemented Java applications utilizing the Spring MVC framework for streamlined web development.
- Created SQL queries in the DAO layer of microservices to retrieve data from Google Spanner.
- Employed Splunk for customer data extraction and mapping.
- Contributed to Agile team efforts in designing, developing, and implementing software systems and applications.
- Debugged and resolved pre-deployment and production defects.
- Conducted regression testing using JUnit Testing and Mockito.
- Tested application flows through REST API calls using Postman.
- Implemented frontend interfaces using JavaScript and React to enhance user experience in enterprise applications.
- Configured CI/CD pipelines with Jenkins for multi-environment deployment.
- Managed JIRA user stories and Confluence code architecture documents.

EDUCATION

The University of North Carolina at Charlotte, NC, USA

Fall 2023 - May 2025 (Est.)

Masters in Computer Science

Current GPA: 3.80/4.0

Maulana Abul Kalam Azad University of Technology, West Bengal, India

Aug 2016 - Jul 2020

Bachelor of Technology in Computer Science And Engineering

Current GPA: 7.48/10

SKILLS

Languages: Java, Python, C, C#, C++, SQL, HTML, CSS

Database: MySQL, Google Spanner

Software: Jupyter Notebook, MySQL, IntelliJ, Eclipse, Splunk, Postman, JIRA, GIT, Confluence, Tableau, Microsoft Visual Studio

PROJECTS

Hand Gesture Recognition Model | *Python, Jupyter Notebook*

July 2019

- Examined Shape Characterization's role in solving computer vision challenges, focusing on hand gesture-based Sign Language recognition. DOI - doi.org/10.1007/978-981-13-7403-6_21.

Online Tram Booking System | *C++, MySQL, HTML*

Oct. 2019

- Designed a C++ application for account management and ticket booking, integrated with two MySQL databases using MySQL connectors. Available online at github.com/Sayantana03/HEXABYTES.

Visualising a Anime Dataset | *Tableau*

Oct. 2023

- Designed a Tableau visualization depicting the relationship between viewer demographics and anime preferences, as well as trends and rankings across various Anime Studio Groups. Available online at viz/PersonalPresentationSayantanaBanik/TheWorldOfAnime.