Sayantan Banik

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EXPERIENCE

Software Engineer Intern   June 2024 – Aug 2024
LexisNexis, Raleigh, NC, USA

- Implemented the client-side of a web application using React, TypeScript, HTML, and CSS with the Angular framework.
- Implemented state management using React hooks and Context API, optimizing re-renders and improving performance.
- Integrated SVG animations and CSS transitions to improve UI interactivity and enhance user experience.
- Improved frontend performance using techniques like lazy loading, code splitting, and memoization.
- Developed server-side functionalities for implementing RESTful API calls using C#.
- 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.
- 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.
- Configured CI/CD pipelines with Jenkins for multi-environment deployment.
- Deployed microservices on Google Cloud Platform with Spinnaker.
- Utilized Docker containers to streamline microservice deployment across environments.
- 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: 3.8/4.0*
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#, SQL, HTML, CSS, Typescript, React
Database: MySQL, Google Spanner
Software: Jupyter Notebook, MySQL, IntelliJ, Eclipse, Splunk, Postman, JIRA, GIT, Confluence, Tableau, Microsoft Visual Studio, Docker

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/Sayantan03/HEXABYTES.

Path-Tracing Terrain Robot Prototype | *Arduino IDE, C++, Infrared Sensors, Motor Control Modules*   Oct. 2016

- Developed and deployed a codebase for an Arduino-controlled robot capable of traversing diverse terrains and autonomously following black-line paths, showcasing practical implementation of embedded systems and robotics.