

DIBBYO SAHA

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Summary

- Final-year Computer Science Co-op student specializing in Software Engineering with extensive experience in **Java, Python, React, JavaScript, TypeScript, and SQL**.
- Proficient in **Azure DevOps, CI/CD pipelines, SharePoint, and Power Platform** with a passion for delivering high-performance information management and software solutions.
- Skilled in tools like **Git, Jenkins, Jira, RESTful APIs, JQuery**.
- Proven ability to collaborate effectively, solve complex problems, and deliver high-quality solutions for government and enterprise systems.
- **Strong organizational, research, and analytical skills**, adept at managing records, cataloguing, and supporting data-driven decision-making.

Work Experiences

Programmer/Tester Co-op

(01/2024 – 12/2024) - 12 Months

Ministry of Children, Community and Social Services - Government of Ontario

- Helped design and execute comprehensive test suites using **Robot Framework, Selenium, and Python** for **UI and functionality testing** for multiple web applications, including the **Victim Quick Response Program (VQRP), eBill, and Freedom of Information (FOI) Request Tracker**.
- Implemented functionalities using **TypeScript** for the FOI Tracker project to accommodate updates.
- Provided development and maintenance support for **SharePoint sites**, enhancing usability and ensuring high availability of resources.
- Leveraged **Azure DevOps** for code repository management and **Agile** project planning, enabling streamlined collaboration and continuous integration.
- Utilized **Power Automate** to develop automated flows for incident management, including notifications to managers via Outlook upon incident submission via **Microsoft Forms** with the form data being stored appropriately in **SharePoint lists**.
- Acquired training in **Power, Apps, Power BI, and SharePoint Framework (SPFx)** to enhance SharePoint custom development capabilities.

Software Engineer Intern

(05/2023 – 08/2023) - 4 Months

TD Securities

- Spearheaded the enhancement of the **TD Securities Vortex (TDSVTX)** project using **Python**, developing a state-of-the-art dashboard for Key Risk Indicators (KRI) critical for the Risk Platform DevOps team.
- Optimized **multithreading** to streamline the uploading of **Excel files** to the **SQL database**, significantly increasing efficiency and performance.
- Managed version control using **Git (Bitbucket)**.
- **Automated manual processes**, such as file deletion post-upload, and introduced a strategic merger of data categorization to reduce manual coding.
- Designed a customized **Python** parser for **XML** data extraction, highlighting skills in automation and optimization.
- Demonstrated exceptional data analysis skills by identifying and resolving inconsistencies within vast data sets in Excel files and the KRI dashboard.

Software Engineer Intern

(05/2022 – 08/2022) - 4 Months

TD Canada Trust

- Developed technical documentation for the **HOPEX** platform for TD's software architects.
- Helped onboard **20+** TD software architects.
- Managed and prepared guidance documents for new software architects on **Confluence**.
- Maintained logs of onboarded software architects on Confluence and scheduled meetings to assist with HOPEX platform access.

Projects

Integrated Scheduling and Records Management System

(02/2025)

- Developed an interactive dashboard for managing booking requests and calendar scheduling using **React, TypeScript, and FullCalendar** library.
- Integrated **REST APIs** for fetching booking data, with data visualization using **Chart.js** and **React-Query** for efficient state management.
- Implemented a backend in **Python (Flask)** with **SQLite** for data storage, supporting **CRUD** operations for booking entries.
- Ensured seamless user experience with **React Router** for navigation and custom hooks for state handling.

Document Tracking and Archiving Portal

(01/2025)

- Developed a document tracking system using **React, JavaScript, and Node.js (Express)** for backend services.
- Integrated **MongoDB** for document storage, with metadata tagging, search, and document status tracking features.
- Created an intuitive frontend interface using **React Context API** and custom components for document upload, search, and retrieval.
- Utilized **Mongoose** for schema validation and **Multer** for secure file upload handling.

Service Request Management Platform

(12/2024)

- Developed an end-to-end platform for tracking service requests and managing case files using **React, TypeScript, and Redux Toolkit**.
- Implemented a secure backend API using **Python (FastAPI)** and **PostgreSQL** to handle service requests and case assignments.
- Integrated user authentication with **JWT** and role-based access control for different levels of employees.
- Built a dashboard for real-time status tracking and performance analytics using **Chart.js** and **React-Query**.

Education

Toronto Metropolitan University (formerly Ryerson University)

(09/2020 - 04/2025)

Bachelor of Science (B.Sc (Hons) (Co-op)), Computer Science