Aritra Saha

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Skills

- **Programming Languages:** Python, Java, Kotlin, C++, C, PHP, JavaScript, TypeScript, HTML/CSS, Bash, SQL, R
- **Technologies:** React, React Native, Redux, JSON, Node.js, Express, Google Cloud, Google Analytics, MariaDB, Flask, Laravel, TensorFlow, Beautiful Soup, REST APIs, Linux, MSSQL
- **Tools:** Git, Jira, Jenkins, Confluence, Visual Studio Code, Vim, Terminal, Agile Development
- **Languages:** Fluent in English and Bengali; Professional working proficiency in French

Experience

RBC Capital Markets   Toronto, Ontario, Canada
Software Engineer Intern   *September 2022 - December 2022*
- Designed and developed a web app using **React** and **Node.js** to manage the usage of **~15000** datasets across RBC for the Quantitative and Technology Services team
- Created **REST API** endpoints and middleware in **Express** with **JavaScript** and **SQL** to connect to an **MSSQL** database

Accedo   Toronto, Ontario, Canada
Software Engineer Intern   *January 2022 - April 2022*
- Worked with Hearst Television to develop Very Local, an OTT TV service that streams live news to **27** U.S. cities
- Interfaced with Hearst's **REST API** to build a news chapters feature using **React**, **Redux**, **TypeScript**, and **CSS**
- Integrated Publica ads into **15+** local channels through the **Publica Public API** and **Server-Side Ad Insertion (SSAI)**

Zamplo   Calgary, Alberta, Canada
Software Developer   *May 2021 - August 2021*
- Upgraded Zamplo, a global platform that aids **1000+** people in organizing their health information, using **React**, **React Native**, **JavaScript**, and **CSS**
- Enabled expansion into **3** new countries by translating the app into French and Dutch with **I18next** and **JSON** files
- Measured key app metrics for **30+** events by integrating **Google Analytics for Firebase**

Charity Republic   Kitchener, Ontario, Canada
Junior Software Developer   *November 2020 - October 2021*
- Improved Hour Republic, a web application that manages volunteers for **60+** school systems across Canada
- Acquired **5** new clients and **$2000+** in revenue by enhancing analytics reports, refining user communication, and elevating the UX/UI using **PHP**, **Laravel**, **JavaScript**, and **SQL** through **MariaDB**

My Oral Village   Toronto, Ontario, Canada
Software Engineer Intern   *May 2020 - August 2020*
- Spearheaded a team of **4** industry professionals in creating 4Share, a cash calculator app guiding innumerate users in developing countries through mobile banking and safe cash purchases
- Reduced app size by **95%** by optimizing interactive tutorials with **Java** in **Android Studio**

Projects

QuickRecipez   *September 2020*
- Developed a cross-platform mobile camera app that takes pictures of ingredients and provides the user with recipes using **React Native** and **JavaScript**
- Leveraged **TensorFlow's Object Detection API** to recognize over **20** foods, mapped the foods to recipes from a Kaggle dataset with **Python**, and web-scraped a picture for each recipe using **Beautiful Soup**
- Bridged the front end to the back end with **Flask** serving a **REST API** hosted on **Google Cloud**

Education

University of Waterloo   Waterloo, Ontario, Canada
Bachelor of Computer Science - Software Engineering Specialization   *September 2019 - May 2024*
- **Relevant Courses**: Data Structures, Algorithms, User Interfaces (**Kotlin**), Object-Oriented Software Design (**C++**, **Linux**), Intro to Database Management (**SQL**), Intro to Artificial Intelligence, Computer Networks, Operating Systems