

# Aritra Saha

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## Skills

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- **Programming Languages:** Python, Java, Kotlin, C++, C, PHP, JavaScript, TypeScript, HTML/CSS, Bash, SQL, R
- **Technologies:** React, React Native, Redux, JSON, Google Cloud, Google Analytics, MariaDB, Node.js, Flask, Laravel, TensorFlow, BeautifulSoup, REST APIs, Linux, AJAX, PostgreSQL
- **Tools:** Git, Jira, Jenkins, Confluence, Visual Studio Code, Vim, Terminal, Agile Development

## Experience

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**RBC Capital Markets** Toronto, Ontario, Canada  
*Software Engineer Intern* September 2022 - Present

- Completing a 16-week internship in Quantitative and Technology Services with the Data Content and Modeling team
- Enhancing an application using **React**, **Node.js**, and **PostgreSQL** to manage the usage of ~**15000** datasets across RBC

**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

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**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

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**University of Waterloo** Waterloo, Ontario, Canada  
*Bachelor of Computer Science - Software Engineering Specialization* September 2019 - April 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

## Additional Information

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- **Languages:** Fluent in English and Bengali; Professional working proficiency in French