Aritra Saha

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Skills

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

Experience

Accedo   Toronto, Ontario, Canada
Software Engineer Intern   *January 2022 - April 2022*
- Working with the Hearst team in developing Very Local, a TV app that streams live news to **27** cities in the USA
- Implementing video chapters and detail pages with **React**, **Redux**, **TypeScript**, and **CSS** by interfacing with a **REST API**

Zamplo   Calgary, Alberta, Canada
Software Developer   *May 2021 - August 2021*
- Upgraded Zamplo, a global health platform that aids **1000+** users in organizing their health information using **React**, **React Native**, **Redux**, **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 implementing **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 by leveraging an **MVC** design pattern with **PHP**, **JavaScript**, and **SQL** through **MariaDB**
- Acquired **5** new clients and **$2000+** in revenue by enhancing analytics reports, refining user communication, and elevating the UX/UI using **Laravel**, **HTML**, and **CSS**

My Oral Village   Toronto, Ontario, Canada
Software Engineer Intern   *May 2020 - August 2020*
- Spearheaded a team of **4** industry professionals in developing 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**
- Trained a **TensorFlow** model to recognize over **20** foods, matched the foods with 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**; incorporated **HTTP** GET and POST requests

Education

University of Waterloo   Waterloo, Ontario, Canada
Bachelor of Computer Science - Software Engineering Specialization   *September 2019 - April 2024*
- **Relevant Courses**: Object-Oriented Software Design (**C++**, **Linux**), Data Structures, Algorithms, Designing Functional Programs, Elementary Algorithm Design (**C**), Intro to Database Management (**SQL**), Operating Systems

Additional Information

- **Awards:** International Baccalaureate Diploma, University of Waterloo Euclid Math Contest School Champion, DECA Top 10 Case Study for Financial Team Decision Making
- **Languages:** Fluent in English and Bengali; Professional working proficiency in French
- **Interests**: Soccer, Basketball (Toronto Raptors), Fitness and Nutrition, Video Games, Anime, Music, Movies