Aritra Saha

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Skills

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

Experience

Tesla   Palo Alto, California, USA
Software Engineer Intern   *September 2023 - December 2023*

- Improved Powerhub, a platform for maintaining over **100000** energy assets in real-time, for the Commercial UI team
- Built full-stack UI components using **TypeScript** with **React**, **GraphQL**, and **Fastify**, a **Node.js** HTTP web framework
- Restructured documentation-focused **Fastify** server to separate content from Markdown and default templates
- Implemented server-side internationalization of documentation with **Handlebars** and **i18next** for **7** locale

Constant Contact   Waltham, Massachusetts, USA
Software Engineer Intern   *May 2023 - August 2023*

- Drove construction of **React** UI and **Spring** microservices on **AWS** with **Java** for the email marketing platform
- Refactored **12** codebases by updating **npm** package namespaces, which increased security and reduced build times

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 track and 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 enhance Very Local, an OTT TV service that streams live news to **27** cities in the US
- Interfaced with Hearst's **REST API** to build a news chapters feature using **React** with **TypeScript**
- Integrated Publica ads into **15+** local channels through the **Publica Public API** and **Server-Side Ad Insertion**

Zamplo   Calgary, Alberta, Canada
Software Developer   *May 2021 - August 2021*

- Upgraded Zamplo, a platform that aids **1000+** people in organizing their health data, using **React** and **React Native**
- Enabled expansion into **3** new countries by translating the app into French and Dutch with **i18next**
- Measured key app metrics for **30+** events by integrating **Google Analytics for Firebase**

My Oral Village   Toronto, Ontario, Canada
Software Engineer Intern   *May 2020 - August 2020*

- Built an **Android** app with **Java** that guides innumerate users in developing countries through safe cash purchases

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**
- 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   *September 2019 - May 2024*