

ARITRO SAHA

Software Developer

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aritrosaha.vercel.app

github.com/aritrosaha10

SUMMARY OF QUALIFICATIONS

- Highly proficient in full stack web development using React.js and its derivatives demonstrated through projects completed for A-IAC and MYAC
- Reliable, efficient, and flexible - able to work under tight time constraints to create reliable products rapidly, demonstrated by the election system and website created for the Anglo-Indian Association of Canada
- Dedicated team leader focused on engagement and productivity, illustrated by leading the programming effort within the John Fraser VEX Robotics team and Computer Science Club

EXPERIENCE

Director of Software

Anglo-Indian Association of Canada (A-IAC)

April 2021 - Present

- Spearheaded the launch of a modern and sleek website from the ground up using the Jamstack with over 200 monthly users that can be found at a-iac.org
 - Built an e-commerce trading platform with a NoSQL backend for members to buy and sell products / services
 - Optimized SEO using Google Search Console to have the website rank 1 in Google search results
 - Effectively communicated with senior leaders to tailor the design to their liking
 - Enhanced performance and accessibility of website for a Lighthouse score of 100%
- Constructed an election system from scratch to allow for senior citizens to vote electronically during the COVID-19 pandemic

Lead Web Developer

Mississauga Youth Action Committee (MYAC)

August 2021 - Present

- Developed and managed the MYAC website using React.js and Gatsby found at themyac.ca
- Drastically improved the website's performance and SEO, raising its Lighthouse score to an average of 95%

PROJECTS

Blind Spot Detection using Machine Learning

February 2021 - May 2021

github.com/AritroSaha10/BlindSpotDetection

- Solely created a dataset, managing processes ranging from real world data collection to distributed labelling with purpose-built systems
- Designed a machine learning algorithm using Python and Tensorflow to accurately report if a vehicle is within a motorist's blind spot
- Achieved an impressive ~98% accuracy with an average prediction time of under 0.09s on a Raspberry Pi 4

ACHIEVEMENTS

- 2022 - Certificate of Distinction in Canadian Computing Competition (CCC), Senior Level
- 2022 - Honour Roll in CCC, Junior Level
- 2021 - Winner of Hack the North 2021 (Project: Viva)
- 2021 - Best use of Google Cloud in Hack the Valley 5 (Project: AcadeME)
- 2021 - 1st Place at Hack Attack by University of Toronto
- 2021 - Certificate of Distinction in CCC, Junior Level
- 2021 - Graduated Spirit of Math Grade 9 with First Class Honours

EDUCATION

High School

John Fraser Secondary School

September 2020 - June 2024 (Expected)

- Currently in Grade 10
- Taking both Grade 10 and 11 Computer Science Courses

CLUBS

- Vice-President of Computer Science Club
- Programming Executive & Programming Lead in VEX The Royals 82050B Team
- Executive Member in 3D Printing Club
- General Member in Engineering Club
- General Member in Game Design Club

SKILLS

Python, C / C++, HTML / CSS / JS, Next.js & Gatsby, React Native, Photo & Video Editing, Teaching, Strong Teamwork

INTERESTS

Technical

- Edge Computing
- Autonomous Vehicles

Hobbies

- Decentralized Home Automation
- Playing Piano