Aritro Saha

me@aritrosaha.ca | aritrosaha.vercel.app | github.com/aritrosaha10

EDUCATION

John Fraser Secondary School   Mississauga, ON
High School   *September 2020 - June 2024*

EXPERIENCE

Director of Software   April 2021 – Present
Anglo-Indian Association of Canada (A-IAC)   *Mississauga, Ontario*
- Spearheaded the launch of a new modern website with over 1.2K yearly users and 14K views (a-iac.org)
- Built an e-commerce trading platform with a NoSQL backend and Firebase Authentication for members to buy and sell products / services
- Optimized SEO using Google Search Console to have the website rank 1st in Google search results
- 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   August 2021 – Present
Mississauga Youth Action Committee (MYAC)   *Mississauga, Ontario*
- 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%
- Vastly improved UX by adding smooth and complex animations with Framer Motion

PROJECTS

Viva | *React Native, Typescript, Node.js, Express, Google Cloud*   Sept 2021
- Led a team of 4 to create an app that makes speech therapy accessible to everyone
- Created both the React Native app and accompanying Node.js backend
- Won Hack the North 2021

Blind Spot Detection using Machine Learning | *Python, Tensorflow, Raspberry Pi*   Feb 2021 - May 2021
- 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

AWARDS

2022:
Certificate of Distinction in Canadian Computing Competition (CCC), Senior Level
Honour Roll in CCC, Junior Level
Best use of DeSo, FreyHacks & JAMHacks 6
Most creative use of GitHub, Hacky Birthday MLH! 2022
2021:
Winner of Hack the North 2021
1st Place at Hack Attack by University of Toronto
Best use of Google Cloud in Hack the Valley 5
Certificate of Distinction in CCC, Junior Level
Graduated Spirit of Math Grade 9 with First Class Honours

TECHNICAL SKILLS

Languages: Typescript, Javascript, Python, C/C++, HTML/CSS, Swift
Frameworks: React, Next.js, Gatsby, React Native, Node.js, Flask, Tailwind, Chakra UI, PROS
Developer Tools: Firebase, MongoDB, Git, Docker, GitHub Actions, Visual Studio Code, PlatformIO