

Rahul Tarak

SOFTWARE ENGINEER · FULL STACK WEB DEVELOPER

Toronto, Canada | Bangalore, India

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Education

University of Toronto

HONOURS B.S. IN COMPUTER SCIENCE

Toronto, Ontario

Aug. 2019 - May. 2023

Work Experience

MLH Fellowship

MLH FELLOW, FALL 2020

Remote

September 2020 - Current

- Contributing to Various TS/JS open source projects

Varsity Publications

BACKEND WEB DEVELOPER

Toronto, Ontario

June 2020 - Current

- Maintaining and Developing All of The Varsity's online presence. Primarily handling thevaristy.ca with over 80,000 monthly visitor
- **Technologies Used:** PHP, MySQL, JavaScript, TypeScript

Mozilla Builders

BUILDER, FIX THE-INTERNET SPRING OPEN LAB

Remote

April 2020 - June 2020

- Created a [Twitter Bot](#) that factchecks information on Twitter by findings its source.
- This project was created from prototype to launch in just 8 weeks under the guidance of the Mozilla Builders Team
- **Technologies Used:** Node.js, MongoDB, Python, NLP, Docker, Jest

Visa Inc.

SOFTWARE DEVELOPMENT INTERN

Bangalore, India

Feb. 2018 - Jul 2018

- Developed a solution to withdraw money from ATM using NFC on your phone
- **Languages used:** Java(Android), Node.js, MySQL

Cisco Systems, Inc.

SOFTWARE DEVELOPMENT INTERN

Bangalore, India

Jul. 2017 - Feb. 2018

- Lead a team of five students to build a peer to peer book sharing platform, which was built under the supervision and mentorship of Cisco.
- **Languages used:** Node.js, Express.js, Angular.js, MySQL

Projects

Web Assembly Video Transcoder

FULL STACK ENGINEER | BUILDER AT MOZILLA'S SUMMER OPEN LAB

Videotranscode.space

June 2020 - Current

- Building a [video toolkit](#) on the browser using web assembly, to ensure privacy for users
- Users can transcode and compress video without uploading content or downloading software
- **Technologies used:** Typescript, Svelte, Web Assembly

Investigating The Vertical Ozone Profile(Research Paper)

AUTHOR, COLLABORATION WITH THE INDIAN INSTITUTE OF ASTROPHYSICS

Published Paper

Bangalore, India | Feb. 2018 - Feb. 2019

- Collected Ozone Data in Bangalore using a custom payload from 12-30 kms, Analyzed this data from 18 hours of flight
- Built a real time, embedded circuit in C, to collect data, and tested circuit for rigorous temperatures of - 80 ° C
- **Technologies used:** C, Python, Matlab

Oak Codefest, Oakridge Int School

FOUNDER & ORGANIZER AT 2018-2019

Codefest.oakridge.in

Bangalore, India | Aug. 2017 - Feb 2019

- Created Bangalore's First Overnight Highschool hackathon
- Hackathon conducted in 2018,2019,2020 with over 100 teams
- Collaborated with IBM,Cisco,HGS, Digital Ocean,Y4PT and Many more.

Technical Skills

Languages	Javascript ,Typescript ,Python, C, C++, Java, PHP , SQL ,MongoDb , HTML, CSS , Bash
Frameworks	Node, Express, Angular.js , Svelte, React, Jest,Flask, MySQL , .NET
Other	Git, Linux, Google Cloud, Docker, Circleci , Netlify , Aws , Jupyter , Matplotlib , Numpy , Arduino , Raspberry Pi