Rahul **Tarak**

SOFTWARE ENGINEER · FULL STACK WEB DEVELOPER

Toronto, Canada | Bangalore, India

☐ +1 (647)-212-8927 | ✉ rahul.tarakbalaji@mail.utoronto.ca | ⌂ cryogenicplanet.tech | ⌂ CryogenicPlanet | ⌂ Rahul-Tarak

Education

University of Toronto *Toronto, Ontario*

HONOURS B.S. IN COMPUTER SCIENCE *Aug. 2019 - May. 2023*

Dean's list 2020-21

Work Experience

MLH Fellowship *Remote*

MLH FELLOW, FALL 2020 *September 2020 - Current*

- Contributing to AWS Amplify under the mentorship of MLH
- **Technologies Used: Aws Amplify, TypeScript, Git**

Varsity Publications *Toronto, Ontario*

BACKEND WEB DEVELOPER *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 *Remote*

BUILDER, FIX THE-INTERNET SPRING OPEN LAB *April 2020 - June 2020*

- Created a Twitter Bot that factchecks information on Twitter by findings its source.
- **Technologies Used: Node.js, MongoDB, Python, NLP, Docker, Jest**

Visa Inc. *Bangalore, India*

MENTORSHIP *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. *Bangalore,India*

SOFTWARE ENGINEERING INTERN(TALENT OUTREACH PROGRAM) *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**

Products and Other Projects

MODFY: A Web Assembly Based Video Transcoder *modfy.video*

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

- Building a video toolkit on the browser using web assembly, to ensure privacy for users
- Users can transcode,compress, trim and cut video without uploading content or downloading software
- **Over 250 upvotes on Product Hunt**, **Frontpage Hackernews**
- **Technologies used: Typescript, React, Web Assembly**

Investigating The Vertical Ozone Profile(Research Paper) *Published Paper*

AUTHOR, COLLABORATION WITH THE INDIAN INSTITUTE OF ASTROPHYSICS

- 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 *codefest.oakridge.in*

FOUNDER & ORGANIZER AT 2018-2019

- 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 , Juypter , Matplotlib , Numpy , Arduino , Raspberry Pi