

JAY BHAGAT

Computer Science Student

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Skills

Proficient with: Javascript, Java, C, C#, Racket, HTML/CSS, MEAN Stack, Firebase, Git, L^AT_EX

Familiar with: React Native, React, Google Cloud APIs, Python, MongoDB, Heroku, Swift, SQL

Relevant Experience

Cynorix Inc.

Waterloo, ON

Cyber Security Software Developer

May 2020 - Current

- Independently created a storage server using *Javascript* on *MongoDB*, to safeguard user passwords, and making changes to use it on a Windows client, coded in *C#* ([Cynorix Password Guardian](#)).
- Built a Google Drive application which allows users to securely share encrypted files with other users without revealing the encryption key using *Javascript*, *Firebase*, *Google Drive API*. ([Secure File Sharing](#))
- Successfully used the *Emscripten* libraries to compile C++ code to *WebAssembly* that runs on Javascript 4x faster.
- Created and used a working secure messaging application between two users on *Javascript* using a state-of-the-art key generation algorithm.

The EPOCH App

Waterloo, ON

Software Developing Intern

Feb. 2019 - Apr. 2019

- Implemented parts of the EPOCH website using *React.js* to improve its UX/UI design to attract users.
- Applied source links to the different pages of The EPOCH App to make the website more efficient
- Effectively managed code. repositories with *Git* to work with an *agile* software development style.

Projects

- Catch (Around-the-Globe):** Used *Unity* to build an AR application that allows users to play catch with another player. The back-end was created using *Firebase Database*. (*Winner of EchoAR Challenge at HackThe6ix 2021*)
- Brick Breaker:** Applied principles of *Object-Oriented Programming* and *multi-dimensional arrays* to make a throwback version of Atari Breakout using *Java*.
- Where to Rent?:** Developed an *iOS application* with a server, created using *Python* and *SQL*, hosted on *Heroku* that scrapes webpages for different rental prices to ensure that users get their dream rental.
- InsurShare:** A *ReactNative* application that scans an image of the user's insurance card, uploads this information onto a server, created with *Firebase* and then allows users to share this information with others.

Additional Experience

City of Brampton

Brampton, ON

Seasonal Camp Counselor & Preschool Instructor

Mar. 2018 - Aug. 2019

- Designed activities for participants to develop their *problem solving* and *motor skills* as commented on by numerous parents
- Integrated participants with disabilities with the remainder of the group through activities as evidenced by their *increasing social circles*

Education

University of Waterloo

Waterloo, ON

Candidate for Bachelor in Computer Science, Honours (CAV 89.7%)

Sept. 2019 - May 2024

- NSERC Undergraduate Student Research Award
- President's Scholarship (95%+)