JAY BHAGAT

Computer Science Student

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Skills

Proficient with: Javascript, Java, C++, C, C#, Racket, HTML/CSS, MEAN Stack, Firebase, Git, Linux, Vim

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

Relevant Experience

Cynorix Inc.   Waterloo, ON
Cyber Security Software Developer   *May 2020 - Aug. 2020*
- 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).
- Effortlessly 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* to compile C++ code to *WebAssembly* that runs on Javascript *400%* faster.
- Created a secure messaging application between two users on *Javascript* to use 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 that is visited by 1000s of users daily 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 2020*)
- **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 a server that dynamically scrapes the web for rental prices in neighbourhoods using *Python*, *SQL*, and deployed on *Heroku*.
- **InsurShare:** Created a server that undergoes authentication for users of the application and records user car insurance data onto the server using *Javascript* and *Firebase*.

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%+)