JAY BHAGAT

Computer Science Student

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Skills

Languages: Javascript, Python, C++, C, C#, Java, HTML/CSS, Bash

Technologies: React, React Native, Firebase, Git, MongoDB, SQL, Heroku, Google Cloud APIs, JIRA, Vim

Experience

BlackBerry Ltd.   Waterloo, ON
Open-Source Software Developer   *Jan. 2021 - Apr. 2021*
- Developed multiple scripts using *Python* to automate team tasks with the *Requests*, *Regex*, and *Pandas* libraries to process & filter data and create spreadsheets to report data.
- Created *Gradle* and *Maven* plugins using *Java*, for the builds of all BlackBerry products that approximately *doubles* efficiency by automatically transferring build information to analysts.
- Produced internal *Bash scripts* to improve the existing CI/CD strategy for different programming environments, aiding to analyze open-source software compliance.
- Implemented *asynchronous functions* to make calls to a REST API, decreasing script run-time by a *factor of 2.03*.

Cynorix Inc.   Waterloo, ON
Cyber Security Software Developer   *May 2020 - Aug. 2020*
- Independently created a secure user password storage server using *Javascript* on *MongoDB*, and making changes to use it on a Windows client, coded in *C#* (Cynorix Password Guardian).
- Effortlessly built a Google Drive extension which allows users to securely share encrypted files without revealing encryption key using *Javascript*, *Firebase*, *Google Drive API*. (Secure File Sharing)
- Utilised the *Emscripten* library to compile C++ code to *WebAssembly* that runs on Javascript *394%* faster.
- Created a secure messaging application between two users on *Javascript* to use a state-of-the-art key generation algorithm.

EPOCH App   Waterloo, ON
Software Developing Intern   *Feb. 2019 - Apr. 2019*
- Implemented parts of the www.epochapp.com that is visited by 1000s of users daily using *React.js* to improve its UX/UI design to attract users.
- 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*)
- **Blog.io:** Applied the *MERN Stack* (MonogDB, Express, React, Node.js) to build a *full-stack* blogging app allowing users to post, like, and comment on articles.
- **Where to Rent?:** Developed a server that dynamically scrapes the web for rental prices in neighbourhoods using *Python*, *Selenium*, *SQL*, and deployed on *Heroku*.
- **Dealia!:** A mobile application built using *React Native* and *Expo* with a *Firebase* back-end to allow users to find the best online deals.

Education

University of Waterloo   Waterloo, ON
Candidate for Bachelor in Computer Science, Honours (CAV 91.4%)   *Sept. 2019 - May 2024*
- NSERC Undergraduate Student Research Award
- President's Scholarship (95%+)