

# JAY BHAGAT

Computer Science Student

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## Skills

**Languages:** *Java, Racket, C, JavaScript, Python, HTML/CSS*

**Technologies:** *React.js, Git, Node.js, L<sup>A</sup>T<sub>E</sub>X, PostgreSQL, Firebase*

## Projects

- **Personal Website:** Used *React.js* with *HTML/CSS* and *JavaScript* to build my own personal website to display my portfolio and deployed it using *Firebase*.
- **Brick Breaker:** Applied principles of *Object-Oriented Programming* and *multi-dimensional arrays* to make a throwback version of Atari Breakout using *Java*.
- **Number Theory Calculator:** Applied different efficient and *recursive algorithms* to create a calculator that has operations for mod, gcd, lcm, etc. in *C*.
- **Sudoku Solver:** Implemented and developed a *backtracking, recursive algorithm* to determine the correct solution for a Sudoku problem using *Python*.

## Experience

### 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

### 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*

### TFSS HOSA

Brampton, ON

*Vice-president of Education*

*July 2017 - June 2019*

- Lead a team of *14 Training Coordinators* to develop a strategy to teach required content to 120 high school students from which *35 were part of the Top 10* in their respective events
- Organized a completely new educational structure for the TFSS HOSA chapter to improve the *quality of education* for students

## Education

### University of Waterloo

Waterloo, ON

*Candidate for Bachelor in Computer Science, Honours (GPA 3.96)*

*Sept. 2019 - May 2024*

- President's Scholarship (95%+)

### Turner Fenton Secondary School

Brampton, ON

*IB Diploma & OSSD (99.2% University Admissions Average)*

*Sept. 2015 - June 2019*