JAY BHAGAT

Computer Science Student

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Skills

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

Technologies: React.js, Git, Node.js, LaTeX, 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*.

- **SudokuSolver:** Implemented and developed a *backtracking, recursive algorithm* to determine the correct solution for a Sudoku problem using the *NumPy* library from *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*