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 (JavaScript, HTML/CSS)

- Utilized the open-sourced *React.js* JavaScript library to build a website that displays my portfolio
- Designed the website using modern technology practices such as *components* and *React-MDL*
- Used *React-Router*, the *GoogleFonts API*, and *Gradients UI* to build a user-friendly, multi-page website

Brick Breaker (Java)

- Applied principles of *Object-Oriented Programming* to design a throwback version of Atari Breakout
- Implemented *multi-dimensional arrays* and the *Paint interface* in Java to help design an attractive GUI

SudokuSolver (Python)

- Developed a *recursive backtracking* algorithm to find and display the solutions to a given Sudoku Board
- Used the *NumPy library* to implement its matrix operations on the Sudoku Board
- Applied the *UnitTesting framework* in Python to debug and execute assertion-based testing on the code

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*