

# BALPREET MANGAT

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in Balpreet Mangat

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## KEY SKILLS

- **Programming Languages:** C++, C, Python, JavaScript, HTML, and CSS
- **Tools/Technologies:** React.js, Bootstrap, Git, Linux OS, Atom, Eclipse, VS Code
- **Learning This Term:** On Udemy – Angular, SQL
- **Soft Skills:** Communication, Problem Solving, Teamwork, Leadership, and Fast-Learner

## EDUCATION

Candidate for Bachelor of Computer Science, University of Waterloo

September 2018 – April 2023

## WORK EXPERIENCE

**Software Developer, OpenText** (Cancelled due to COVID)

May 2020 – August 2020

**Web Developer & Designer, Siva Creative**

May 2019 – August 2019

- Transformed high-level concepts and designs by graphic design team into functional websites using **front-end development** tools such as HTML, CSS, and WordPress
- Implemented CSS framework **Bootstrap** to create responsive web-design and mobile-friendly components
- Effectively **balanced** multiple projects with shifting priorities and executed tasks in **fast-paced environment**
- Worked with multi-disciplinary team to **streamline web development processes**, decreasing project time estimations by 10%
- **Highly responsive** to work-related requests from colleagues and clients, with appropriate modifications made within 1-2 days

## PROJECTS

**RAIInet, Group Project**

December 2019

- Developed a two-player desktop game application, similar in style to Stratego, using modern **C++** libraries (**STL**)
- Conceptualized and designed a solid **object-orientated** program, with advanced knowledge and considerations for program **resiliency**, design patterns (Factory Design Pattern, Observer Pattern, Non-Virtual Interface) and **encapsulation** of data
- Collaborated with team to create the **front-end** of web application using XWindow, allowing for interactive graphics

**Saveify, Group Project**

January 2019

- Programmed a website which helps University students' budget weekly expenditure, with custom tailored strategies and recommendations to improve cash flow
- Contributed to the **front-end development** (HTML, CSS, JavaScript) to make the website interactive, with an appealing and **responsive interface**

**Spider Solitaire, Personal Project**

November 2018

- Created a single player Windows **desktop application**, where users a play spinoff of the traditional card game Solitaire
- Implemented back-end functionality with **C** using modular programming, while maximizing runtime efficiency using dynamic ADTs

## VOLUNTEER EXPERIENCE

**Co-Founder and Director of Events, Rise Above Adversity**

June 2018 – September 2019

- Founded a non-profit organization with the primary goal of increasing community awareness amongst youth
- Reached out to 200+ youth in the GTA to promote social justice and connected 45 youths to volunteer locations
- Planned multiple events alongside Mayor of Brampton and Peel School Trustees, where attendees were inspired by level of advocacy and opportunity for community change

## HONOURS AND AWARDS

University of Waterloo President's Scholarship of Distinction

April 2018

Canadian Computing Competition School Champion

February 2018

Top 10 Presentation Score for Business Competition (DECA) out of 100+ students

November 2018