

Sehaj Gupta

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EXPERIENCE **Full Stack Developer** - SpringFree Trampoline May 2018 - Present

Web Developer - CTE, University of Waterloo Sep - Dec 2017

- Developed a custom module for **Drupal** in **PHP** for the UWaterloo CMS
- Implemented the entire software development life cycle using Agile Methodologies.
- Module adds a teaching story content type with search and filtering. (goo.gl/N1L4jD)
- Collaborated with a **UI/UX** specialist to make key design decisions about structure and appearance of content on CTE websites for the WatCV project.

Data Science Intern - Wipro, India Jun - Aug 2016

- Shadowed the Decision Analytics & Real Time Strategy project team.
- Worked to securely store and analyze over 7 Tb of data for **targeted advertising** and **cost reduction**.
- Wrote test queries in **Apache Hive** to test data integrity.

SKILLS PHP, Drupal, Scala, C++, HTML, CSS, JS, Node, Vue, Bash, Gulp, SQL.

PROJECTS **ButterCup** | Alexa Fitness Tracker made for EngHack 2018

- Won **Sketch** Best Design and **Wolfram** Best use of API award.
- Coded web-app in **Vue.js** and hosted db on **Firebase**.
- Reduces the friction in the process of entering daily food intake.
- Simplifies the analysis of nutrition macros and habits.

WLM Compiler

- Coded in **Scala** to compile a simplified version of C to MIPS binary.
- Code is first tokenized using a lexer, then its parsed into a tree and converted into MIPS assembly code which is then assembled down to binary.

CC3K | Command Line Game

- Coded in **C++**. The game has multiple player characters and non-player characters. Objective is to get through 5 floors and collecting gold on the way.
- Used key **design patterns** for e.g. the observer pattern to see if the dragon hoard has been picked up yet.

AWARDS **Fundamentals in University Teaching, University of Waterloo** Dec 2017

- Hosted teaching sessions and participated in workshops on teaching and presentation.

Tuition Scholarship, Microsoft Mar 2017

- Awarded in recognition of passion for tech, academic excellence and leadership.

President's Scholarship, University of Waterloo Sept 2016

EDUCATION *Bachelor of CS Co-op*, University of Waterloo, Canada, expected grad. May 2021