




# Vichara Nimnaka Wijetunga

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## PROGRAMMING SKILLS

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- **Languages:** Java, Javascript, C/C++, PHP, SQL, Python
- **Technologies:** NodeJS, ExpressJS, Git/Bash, REST, JQuery, HTML, CSS, Firebase, NoSQL, UNIX/Linux





## EXPERIENCE

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- **The Weather Network** Oakville, ON  
*Software Developer, Web* May - August 2018
  - **Frontend:** Created a Fourteen-day trend chart using [Chart.js](#) (desktop) . Implemented [AMP](#) (Google's Accelerated Mobile Pages), reducing forecast page load times by [1.5s](#) (mobile) .
  - **Backend:** Worked with the [CodeIgniter](#) Framework for PHP, implementing the [MVC](#) design pattern. Introduced data aliasing for PHP endpoints reducing API request time by [0.5s](#) (client side). Created a [REST API](#) endpoint for displaying news articles provided by editorial staff (through our [CMS](#)).
  - **Testing:** Frequently employed [TDD](#) methodologies. Used [Jasmine](#) for the frontend and [PHPUnit](#) for the backend.
  - Worked in an [Agile](#) team ([Scrum](#) methodology), alongside [QA](#), [Product Managers](#) and fellow [Developers](#). Took part in end-of-sprint [retros/planning](#), in addition to frequent [refinement sessions](#)

## PROJECTS

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- **PresentEasy**   
*Personal Project*
  - **Description:** Analyze the sentiment of user inputted text and find relevant images (useful for presentations)
  - **Technologies:** [Node](#) server for API requests, [Firebase](#) database (Accounts), [JQuery/Bootstrap](#) (Frontend)
- **CryptoConsensus**   
*Hack the Valley Runner-Up: Best use of Azure*
  - **Description:** Crawls Reddit for posts related to a crypto-currency and returns the “publics’ ” opinion of the coin
  - **Technologies:** [Node](#) application for Reddit Crawling, [Express](#) Server, [Azure](#) sentiment analysis training
- **Infinity**   
*Personal Project*
  - **Description:** 2-D platformer where the player faces rounds of enemies and can purchase/equip armour items
  - **Technologies:** [Java](#) application. Explores [OOP](#) concepts like classes, abstraction, inheritance and interfaces
- **Study Space**   
*Ryerson Hacks Project*
  - **Description:** An app that allows users to find empty class/lecture rooms that are closest to them at UW
  - **Technologies:** [Android](#) application. Used [Android Async Client](#) to make HTTP requests. Queried data from a [SQLite](#) database.


## EDUCATION

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- **University of Waterloo** Waterloo, ON  
*Bachelor of Software Engineering; GPA: 3.86* Sep. 2017 – Present
  - Term Dean's Honours List

## ACHIEVEMENTS

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- **Princeton Algorithms** : Implemented complex [Algorithms](#) (A\*, Quick Find) and [Data Structures](#) (2D-Trees, Queues)
- 2016 [SHAD](#) Carelton participant. [Silver](#) and [Bronze](#) Recipient of the [Duke of Edinburgh Award](#)

## EXTRACURRICULAR ACTIVITIES

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- **Dragon Boating Team:** Part of the recreational dragon boating team at the University of Waterloo
- **Software Engineering Representative:** Orientation leader for the incoming SWE class of 2023