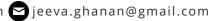
# Ghanan Jeevaretnam

# Systems Design Engineering









#### SKILLS

Languages: Java, JavaScript, SQL, Python, C++, Arduino HTML, CSS, C#

**Tools:** Unity, Visual Studio Visual Studio Code,

# AWARDS

FRC 2018 Worlds Championship Semi-Finalists

> FRC 2018 Ontario Provincial Semi-Finalists

FRC 2019 STEMley Cup International Champions

#### EDUCATION

University of Waterloo B.A.Sc. **Systems Design** Engineering '24

## COURSEWORK

Digital Computation(C++), Data Structures & Algorithms(C++), Human Factors in Design

#### INTERESTS

Tennis, Soccer, Travelling, Sketching, Reading, Photography

#### **EXPERIENCE**

#### WEB DEVELOPER | SPRINGBAY STUDIO

Jan - May 2020 | HTML, CSS, JavaScript

- Created a "CO2 calculator" alongside a leaderboard system to make **API calls** to an AWS back-end database shared between the iBiome app and website in order to track user's CO2 daily consumption
- Programmed the complete front end of the company's promotional website to create a sleek, user friendly experience

# MOBILE GAME DEVELOPER | SPRINGBAY STUDIO

Jan - May 2020 | Unity, C# apps.apple.com/us/app/ibiome-arctic-50th-earth-day/id1476091149

- Led development for major features of iBiome app using **object**oriented programming resulting in "App of The Day" placement on **Apple Store**
- Investigated and fixed long-standing bugs to improve user playability and appeal to customers like Google for the app to be placed on the Google Classroom platform
- Refactored code and revamped asset loading to significantly improve performance of the game on mobile devices

# FIRST ROBOTICS STRATEGY & SCOUTING TEAM EXECUTIVE SEPT 2018 - JUN 2019

 Managed and led 45+ students at FRC competitions to collect large amounts of data both accurately and efficiently leading to multiple finals & semi-finals appearances

## PERSONAL PROJECTS

# **EMPLOYEE MANAGEMENT SYSTEM | JAVA**

SEPT 2018 - JUN 2019 | JAVA, NETBEANS github.com/ghanan-jeeva/Employee-Management-System

- Programmed an object-oriented database using a NetBeans-GUI to add, edit, and remove user-inputted employee info in a **hash table**
- Persisted user data by caching user properties to a local file

# PERSONAL PORTFOLIO WEBSITE | HTML, CSS

SEPT 2018 - JUN 2019 | HTML, CSS, BOOTSTRAP ghananjeeva.com

- Developed website **from scratch** using HTML and CSS to highlight past projects and experiences using Visual Studio Code
- Implemented **responsive design** using Bootstrap