

# Hirathanan Subenderan

3A Computer Science | hsubende@uwaterloo.ca | (647)-786-4641

## SKILLS

### PROGRAMMING

#### Languages:

Python • C++ • Java  
R • C • JavaScript

#### Frameworks/Tools:

Flask • AngularJS • NodeJS  
ExpressJS • HTML • CSS

#### Experience with:

Git • Mercurial • SQL  
ZeroMQ • Gulp • Bash

#### CS Interests

Systems Design • Scalability  
Data Structures • Algorithms  
Hashing • Security • Databases

## EDUCATION

### UNIVERSITY OF WATERLOO

#### BACHELOR OF COMPUTER SCIENCE

#### MINOR IN STATISTICS

Graduating Apr 2020 | Waterloo, ON

### UNDERGRADUATE

Operating Systems  
Algorithms  
Data Structures  
Object Oriented Programming  
Introduction to Compilers  
Functional Programming  
Digital Logic  
Logic and Computation

## LINKS

[github.com/hirathanan](https://github.com/hirathanan)  
[linkedin.com/in/hirathanans](https://linkedin.com/in/hirathanans)

## INTERESTS

Personal Finance  
Investments and Stocks  
Mechanics and Components of a Car  
Sports and Physical Fitness  
Basketball Intramural Champs (Spr 2017)

## EXPERIENCE

### ESENTIRE | SOFTWARE DEVELOPER CO-OP

Computer Network and Security

January 2017 – May 2017 | Cambridge, ON

- Built a scalable replacement to a security policy management system including designing, implementing, maintaining and documenting it
- Created a Python & Debian Package for quick installation onto an internal sensor and deployed it using Unicorn and NGINX to automatically run, configure, and manage the system
- Took ownership of the project while coordinating with Product Designers and downstream users in accurately creating system to satisfy all use case requirements
- Technologies included Python, Flask, SwaggerUI, PostgreSQL, ZeroMQ and Linux

### IMAGINE COMMUNICATIONS | FULL STACK WEB DEVELOPER CO-OP

Broadcast Media Technology

April 2016 – Aug 2016 | Waterloo, ON

- Implemented REST API endpoints for transferring meta-data consisting of images, text, and media
- Developed a Graphics Editing Tool implementing and maintaining features for editing images, videos, and audio on a canvas
- Designed a Sales Tool allowing marketers to streamline processes to improve the productivity of marketing employees
- Worked with a Software-as-a-Service startup, Boltmade (Acquired By Shopify), building a Content Management software for IBC2016
- Technologies included TypeScript, AngularJS, C#, HTML and CSS

## PROJECTS

### TWELPER | NODEJS, REACT-NATIVE, YELP AND UBER API

Feb 2017 | QHacks

[askfortwelp.com](https://askfortwelp.com) | [github.com/hirathanan/Twelper](https://github.com/hirathanan/Twelper)

A mobile app that helps tourists discover exciting destinations in a new city by planning the optimal trip destinations and route

### PICME | NODEJS, EXPRESSJS, REACT-NATIVE, MONGODB

Jan 2017 | ConUHacks

[github.com/hirathanan/picme](https://github.com/hirathanan/picme)

An app for users to create events and upload photos to those events to be compared to one another. Other users can then join their event to see the entries and vote on their favourite. When time's up, the results are calculated and a winner is revealed!

### YELLOWPAGES WEB SCRAPER | PYTHON, FLASK, HTML5, CSS3

Personal Project

A web application which scrapes data from crawling a YellowPages search and organizes the data by allowing users to filter according to name, distance from input location, and rating of each organization