



# TIGER OAKES

Software Developer with 6 years of experience in functional and object-oriented programming. Proven success creating custom solutions for a variety of businesses.

[tigeroakes.com](http://tigeroakes.com)

Vancouver, BC

[github.com/NotWoods](https://github.com/NotWoods)

## Education

09/2015 – 04/2020

(expected with co-op)

### Bachelor of Science in Computer Science, 2<sup>nd</sup> Year

University of British Columbia

## Work Experience

05/2016 – Present

[github.com/ubc-farm](https://github.com/ubc-farm)

### Software Developer

Centre for Sustainable Food Systems at UBC Farm

- Developed custom software with the **UBC Work Learn International Undergraduate Research Award**.
- JavaScript program stores data collected by farmers for researching and analyzing growing patterns.
- Used geometry calculations to let users draw farm fields and split them into grid based plots.
- Implemented UI with **React** and **Redux** using functional design.

10/2009 – 08/2015

[omlhawaii.com](http://omlhawaii.com)

### Web Developer and IT Manager

OML Contracting Co.

*Construction company building private resort residences in Hawai'i*

- Designed and developed portfolio to showcase residences.
- Implemented CSS 3D animations to create GPU accelerated parallax effect.
- Applied **lazy-loading CSS** to speed up first render.

## Extracurricular

12/2016

[github.com/notwoods/local-hack-day](https://github.com/notwoods/local-hack-day)

### Pass the Bomb

*Online multiplayer word game*

- **Selected by Microsoft as an outstanding project** in UBC Local Hack Day.
- Developed online multiplayer with **Socket.io** in Node.js and JavaScript within a 12-hour hackathon.
- Oversaw team while writing client portion of the game.
- Implemented swiping gestures to allow intuitive submission.

05/2014

[notwoods.github.io/big-island-buses/heleon](https://notwoods.github.io/big-island-buses/heleon)

### Big Island Buses

*Bus rider web app to replace Hawai'i paper bus schedules*

- Won **Grand Prize in Congressional App Challenge 2014, Hawaii's 2<sup>nd</sup> Congressional District**.
- Used JavaScript geolocation API to locate nearby bus stops and routes.

## Personal Projects

06/2014 – 05/2015

[notwoods.github.io/big-island-buses](https://notwoods.github.io/big-island-buses)

### Big Island Buses

- Continued project after contest.
- Implemented **AppCache API** allow the web application to run offline.
- Worked with the County of Hawai'i to integrate the app with the bus system.

04/2014 – 05/2014

[notwoods.github.io/mbta-energy](https://notwoods.github.io/mbta-energy)

### MBTA Energy

*Energy monitor program*

- Volunteered to create tool to assist teacher and his class in aggregating data.
- Calculated reports automatically generated by Belkin WeMo Insight Switch devices.
- Charted electricity usage for students to pinpoint abnormal energy fluctuations.
- Implemented **FileReader API** and CSV parser.

02/2015 – 05/2015

[github.com/notwoods/latch-on](https://github.com/notwoods/latch-on)

### Latch-On Game

- Built platformer game in **C#** with **Unity**.
- Programming grappling hook around **Box2D** physics engine.

## Academic Projects

10/2016 – 12/2016

### Buses 'R Us

- Created **Android** application in **Java** for Software Construction course.
- Wrote geometry calculations to filter bus route shapes and only display portions visible to users.

## Awards

Grand Prize: Congressional App Challenge 2014, Hawaii's 2<sup>nd</sup> Congressional District

UBC Work Learn International Undergraduate Research Award