

TIGER OAKES

Software Developer with 7 years of experience in functional and object-oriented programming. Proven success creating custom solutions for a variety of businesses.

contact@tigeroakes.com

tigeroakes.com

Vancouver, BC

github.com/NotWoods

Education

09/2015 - 04/2020

(expected with co-op)

University of British Columbia

Bachelor of Science in Computer Science, 3rd year

Work Experience

05/2018 - 07/2018 storage.googleapis.com/chrome-supersize/index.html

Google

Chrome for Android - Software Developer Intern

- Redesigned & added new features to "Super Size", web tool used to analyze millions of files contributing to Google Chrome's size. Team used tool to save 30 KB in the first week after release.
- Utilized **streams** and **worker threads** to handle 180 MB of data at once. Displayed partial data in 1 second, full data in 7 seconds.
- Updated **Android Java bytecode** compiler tools, shrinking Chrome by 29 KB.

01/2018 - 04/2018

vitalmechanics.com

Vital Mechanics

3D Graphics & Simulation Developer Intern

Simulates skin for visual effects and prototyping clothing

- Built **TypeScript Electron** client that interfaces with **C++** server to display real-time 3D simulations using **WebGL**.
- Migrated large program from **jQuery** to **React** and **Redux**, saving time and effort for future programmers through reactive design.

08/2017 - 12/2017

yelp.com/describe_your_project?category=movers

Yelp

Local Services - Software Engineering Intern

- Built "Describe Your Project" package with **Python**, so users to easily request quotes from home services businesses.
- Implemented UI for branching question flows with **Flow**, **React** and **Redux**; wrote tree structure to track questions to ask users.
- Led hackathon team to build new product for in-restaurant experience. Placed in **Top 3 of Hardcore** category out of 44 projects and was picked up by sales team afterwards.

05/2016 - 04/2017

github.com/ubc-farm

Centre for Sustainable Food Systems at UBC Farm

Software Developer

- Developed custom **TypeScript** software with the **UBC Work Learn International Undergraduate Research Award**.
- Designed UI and built with **React** and **Redux**.
- Wrote fill algorithm to classify sections of farm fields.

10/2009 - 08/2015

omlhawaii.com

OML Contracting Co.

Web Developer and IT Manager

#1 custom home builder in Hawai'i, building private resort residences.

- Designed and developed web portfolio to showcase residences.
- Applied GPU-accelerated parallax using **CSS 3D** transformations.

Skills

TypeScript | JavaScript | Python | Kotlin | C# |
Java | Node.js | Android | React

Awards

- Finalist: nwHacks 2018 (out of 800+)
- Hardcore Top 3: Yelp Hackathon 24.0 (out of 44)
- UBC Work Learn International Undergraduate Research Award
- Grand Prize: Congressional App Challenge 2014, Hawaii's 2nd Congressional District

Selected Projects

05/2014 - 05/2015

Big Island Buses

Web app to replace Hawai'i paper bus schedules

- Won **Grand Prize in Congressional App Challenge 2014, Hawaii's 2nd District**.
- Implemented **Application Cache API** allow the web application to run offline.
- Contacted and worked with the **County of Hawai'i** to integrate the app with the island's bus system.

04/2018 - 08/2018

Color Breakdown

GUI to analyze image color palette

- Published **Progressive Web App** on **Microsoft Store**.
- Used **JavaScript** file API to open images for parsing, clipboard API to copy hex values.
- Stored user data in **IndexedDB**, used cursors to stream out saved data and reduce time to display by 1 second.

01/2018

μzm

Enhances museum immersion with gamification

- Finalist, nwHacks 2018** out of 800+ people.
- Helped write **Android** app in **Java** to scan NFC badges on exhibits and patrons.
- Built serverless backend with **stdlib** using **Node.js** and **MongoDB**.

12/2016

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** from scratch in 12 hours.