

# TIGER OAKES

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Software developer with 10 yrs experience. Built 2 mobile web browsers & hundreds of open source projects.

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## Experience

Mozilla, Firefox Android Developer Intern & Part-Time Student Worker

2019-05 – 2020-08

- Built and shipped brand new web browser in **Kotlin** to over **100,000,000 users on Google Play Store**.
- Served as a **feature lead for Progressive Web App support**, providing a native feel to **thousands of web apps**.
- Added Trusted Web Activity support to Firefox for Android, **featured in Chrome Dev Summit 2019 keynote**.
- Wrote specifications for new Web App Manifest features as member of the **World Wide Web Consortium**.
- Established testing infrastructure that improved code coverage by 150% and **doubled developer productivity**.

Google, Chrome Software Engineering Intern

2018-05 – 2018-07

- Built internal developer tool used by **entire Google Chrome for Android team** with **JavaScript** and **Python**.
- Used **streams** and **background threads** to handle 180 MB downloads, rendering partial data in under 1 second.
- Migrated **Java** Android compiler and runtime tools, shrinking Chrome by 30 KB and removing memory leaks.

Vital Mechanics, 3D Graphics & Simulation Developer Intern

2018-01 – 2018-04

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

Yelp, Software Engineer Intern

2017-08 – 2017-12

- Built new web search page feature in **Flow, React, Redux**, and **Python** displayed to **1,000,000 users monthly**.
- Led hackathon team to build new product for in-restaurant experience which was picked up by sales team.

Centre for Sustainable Food Systems at UBC Farm, Software Developer

2016-05 – 2017-04

- Developed custom **TypeScript** software and wrote fill algorithm to classify farm fields.

Oakes Management LLC, Web Developer and IT Manager

2009-10 – 2015-08

- Designed and developed web portfolio, including GPU-accelerated parallax using **CSS 3D** transformations.

## Community

### Open Source

- Built Maskable.app developer tool. Recommended by Google & CSS Tricks and is used **over 5,000 times/month**.
- Implemented icon features for Google Bubblewrap & Microsoft PWABuilder, used **over 2,000 times/month**.
- Maintainer for **Rollup** ES6 module bundler, adding **TypeScript typings and compiler support** to all plugins.
- Created Big Island Buses offline web app with County of Hawai'i, won Congressional App Challenge 2014.

### Speaking and Writing

- Speaker at upcoming **CascadiaJS 2020** conference with **1,000 predicted online attendees**.
- Wrote web development articles for **CSS Tricks, MDN**, and **Google web.dev** with thousands of views.
- Authored guidebook on **MockK** testing library for **Kotlin** and **Android**, with **over 5,000 views/month**.

## Skills

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

## Education

University of British Columbia, Bachelor of Science in Computer Science, 4<sup>th</sup> year

2015-09 – 2021-05

## Awards

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