

TIGER OAKES

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Software developer with 10 yrs experience. Built 3 web browsers & hundreds of open source projects.

Experience

Microsoft, Edge Software Engineer

2021-08 — Present

- Caught multiple bugs before deployment by spearheading strict mode **TypeScript** migration.
- Taught **React** and **TypeScript** concepts to 8 teammates as **subject matter expert (SME)**.
- Wrote specifications for new Web App Manifest features as member of the **World Wide Web Consortium**.

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**.
- 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.

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**.
- Saved future developer time by migrating **jQuery** MVP to encapsulated **React/Redux** components.

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.

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, go-to developer tool recommended by Google & CSS Tricks, used **11,000+ times/month**.
- Implemented icon features for Google Bubblewrap & Microsoft PWABuilder, used **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 **CascadiaJS 2020** and **JSConf Budapest 2022** conferences with thousands of 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 **13,000+ views/month**.

Skills

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

Education

University of British Columbia, Bachelor of Science in Computer Science

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