TIGER OAKES

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Highly skilled software developer with over 12 years of experience building 3 web browsers, hundreds of open source projects, performant apps, and web standards.

Experience

Microsoft, Software Engineer II   Aug 2021 — Present

- Spearheaded UI framework migration by **coordinating designers, PMs, and engineers in 3 orgs** and multiple teams, doubling rendering performance and saving engineering time across all of Microsoft.
- Served as **React/TypeScript subject matter expert**—significantly raised standards performance, accessibility, & internationalization standards through mentorship, writing automated tools, giving tech talks, writing articles.
- Wrote specifications for new Web App Manifest features as member of the **World Wide Web Consortium**.
- Removed 1.5 seconds from repeat loads with **IndexedDB** caching and **CSS** performance improvements.

Mozilla, Android Developer Intern & Part-Time Student Worker   May 2019 — Aug 2020

- Built and shipped brand new web browser in **Kotlin** to **over 100 million users on Google Play Store**.
- Served as a **feature lead for Progressive Web App support**, providing a native feel to **thousands of web apps**.
- Coordinated with **Google** and **Intel** developers to add maskable icon support to Firefox and Chrome.
- Added Trusted Web Activity support to Firefox for Android, **featured in Chrome Dev Summit 2019 keynote**.

Google, Software Engineering Intern   May 2018 — Jul 2018

- Designed and built **JavaScript** internal tool to analyze millions of files. The tool was used to **save 30 KB** in the first week after release and avoid limits that would have halted Google Chrome for Android updates.
- Used streams and **background threads** to handle 180 MB downloads, rendering partial data **7x faster**.

Vital Mechanics, 3D Graphics & Simulation Developer Intern   Jan 2018 — Apr 2018

- Rendered 3D **WebGL** clothing simulations by interfacing between Electron client and **C++** server.

Yelp, Software Engineer Intern   Aug 2017 — Dec 2017

- Built new web search page feature in **Flow**, **React**, **Redux**, and **Python** displayed to **1 million users monthly**.

Centre for Sustainable Food Systems at UBC Farm, Software Developer   May 2016 — Apr 2017

Oakes Management LLC, Web Developer and IT Manager   Oct 2009 — Aug 2015

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 types 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 **JSConf Budapest 2022**, **CascadiaJS**, and **HalfStack** conferences with thousands of attendees.
- Wrote web development articles for **CSS Tricks**, **MDN**, and **web.dev** with thousands of views.
- Authored guidebook on **MockK** testing library for **Kotlin** and **Android**, with **20,000+ views/month**.
- Wrote React to **Jetpack Compose** Dictionary, resource recommended by Android team to new developers.
- Mentoring new software developers through volunteering at Ada Developers Academy.

Skills

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

Education

University of British Columbia, Bachelor of Science in Computer Science   Sep 2015 — May 2021

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