
AKI GAO

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Profile

I am a Software Engineer with expertise in UX/UI, Front End and Digital Accessibility with a passion for creating products that positively impact society. My areas of professional interest include the Web, software architecture and engineering leadership. I offer over three years of professional experience in software development using the JavaScript ecosystem, functional programming paradigms and event-driven architectures in Agile environments, including over a year of remote experience working cross-functionally between international times zones.

Work Experience

User1st - Software Engineer, Remote

February 2021 - Present

- Resolve critical customer problems for Check1st, an automated web accessibility assessment SaaS platform built with React, including issues with layout & responsivity, date formatting, and time localization.
- Coordinate directly with enterprise stakeholders to analyze requirements and communicate customer feature requests and issues to product owner.
- Lead instruction for accessibility training with 20+ hours of instruction time covering a range of topics including accessibility standards & principles, assistive technologies and best practices for developing and testing accessible software.
- Provide technical support to enterprise customers, including a major wireless network operator and a domestic passenger rail road service, as well as engineering support to sales.

User1st - Solutions Integrator, Washington, D.C./Remote

January 2020 - February 2021

- Remediated websites to comply with accessibility standards using User1st's uRemediate™ platform for 20+ clients, including a major wireless network operator and a Fortune 500 healthcare provider.
- Audited client websites and mobile applications for compliance with the WCAG 2.1 AA standard and Section 508 guidelines and American's with Disabilities Act (ADA).
- Created internal tooling to automate tasks & improve productivity including:
 - A command-line tool built with Node.js & Puppeteer to automate website URL discovery and auto-generate web page screenshots to reduce time estimations by 33% and improve accuracy by 50% for client websites.
 - A cross-browser extension built with the WebExtension browser API to inject User1st uRemediate™ runtime environment for client sites during site remediation to replace unreliable tooling in 95% of use cases.

Skills

Languages:

JavaScript, TypeScript, Shell (Bash)

Design, Front End & Accessibility Technologies:

Figma, Sketch, HTML, CSS, React, Slack Block Kit, JAWS, NVDA, VoiceOver, TalkBack, WCAG 2.1/WAI-ARIA

Development and Testing Tools:

Git, NPM, Yarn, Webpack, Babel, ESLint

Back End & Infrastructure Technologies:

Node.js, Express, Slack Admin API/Bolt SDK, PostgreSQL, Docker, Kubernetes

Education

The University of Virginia: School of Engineering and Applied Science (SEAS)

August 2016

- B.S. Computer Engineering & B.S. Electrical Engineering