
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, a software platform that corrects accessibility issues, 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) with assistive technologies such as JAWS, NVDA, VoiceOver and Talkback.
- 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's uRemediate runtime environment for client sites during accessibility remediation to replace unreliable tooling in 95% of use cases.

Skills

Languages:

JavaScript, TypeScript, Shell (Bash)

Development and Testing Tools:

Git, NPM, Yarn, Webpack, Babel, ESLint

Design, Front End & Accessibility Technologies:

Figma, Sketch, HTML, CSS, React, Redux, Slack Block Kit

Back End & Infrastructure Technologies:

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

Education

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

August 2016

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