
AKI GAO

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Profile

I am a Software Engineer with a passion for technology and creating software that positively impact people and society. My areas of professional interests include the web, distributed systems and understanding the practices & habits of productive engineers, teams and organizations. I offer over three years of professional experience in software development using the JavaScript ecosystem and functional programming paradigms in Agile (Scrum) environments, including one year of professional experience in web & mobile accessibility.

Work Experience

User1st - *Solutions Integrator*, Washington, D.C. January 2020 - Present

- Remediate websites to comply with accessibility standards using User1st's uRemediate™ platform for 15+ clients, including a large wireless network operator and a major railroad transportation company.
- Audit client websites and mobile applications for compliance with the WCAG 2.1 AA standard and Section 508 guidelines.
- Create internal tooling to automate tasks & improve productivity including:
 - A command-line tool built with Nodejs & Puppeteer to automate website URL discovery and auto-generate web page screenshots to streamline and improve accuracy for time estimations for client websites.
 - A cross-browser extension built with the WebExtension browser API to inject runtime environment for client sites without the necessary uRemediate™ snippet installed to replace unreliable tooling.

Alluminate - *Full Stack Developer (Freelance)*, Washington, D.C. November 2017 - June 2018

- Provided full stack development capabilities and expertise for work ranging from UI design to smart contract development.
- Designed and developed the company's homepage, as well as landing pages and a user portal for several products.
- Audited and tested Ethereum smart contracts for ERC-721 compatibility & general correctness, as well as bootstrapped metamask integration for front end clients and Ethereum test net infrastructure for smart contract deployments.

Booz Allen Hamilton - *Technologist*, Herndon, VA May 2017 - November 2017

- Developed proof of concept Blockchain (Ethereum) applications for various government organizations, including an intra-departmental financial transaction system for the U.S. Treasury and a cryptographically-secured medical record system for the FDA.
- Worked across the stack from front end & back end development, in React and Express respectively, to the deployment pipelines to various cloud providers including AWS and Azure.

Skills

Languages:

JavaScript, Shell (Bash)

UX/UI & Front End Technologies:

Figma, HTML, CSS, JQuery, React, Redux

Back End Technologies:

Nodejs, Express, PostgreSQL

Development and Testing Tools:

Git, Yarn, Webpack, Babel, Jest, ESLint

Accessibility Tools & Technologies:

JAWS, NVDA, VoiceOver (iOS), TalkBack (Android), ARIA

DevOps & Infrastructure Technologies:

CircleCI, Docker, Kubernetes, Google Cloud Platform

Education

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

August 2016

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