

## KIDUS AREGA

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### PROFESSIONAL SUMMARY

Software Engineer-Developer with over 7 years of experience in information technology with a specialty in full-stack web development and database development. Self-directed specialist in evaluating, assessing, developing, and implementing websites, applications, databases, and software's alike, while supporting client's needs throughout project life cycle. Impactful organizational skills with a prowess in cross-functional team communication and leadership. Expertise in software testing, troubleshooting, data analysis, identifying issues while finding effective solutions and providing program development documentation.

### TECHNICAL SKILLS

**Frontend:** JavaScript (ES6+), ReactJS, Vue.js, Next.js, Redux, HTML5, CSS3, Tailwind, Storybook

**Backend:** Node.js, Express.js, GraphQL, REST APIs, JWT Authentication

**Testing:** Jest, Mocha, Chai, Enzyme

**Databases:** MongoDB, MySQL, PostgreSQL, Redis, Oracle

**DevOps & Tools:** Docker, Jenkins, Git/GitHub, AWS (S3, EC2, RDS, Lambda), NGINX, PM2, Postmen

**Other Tools:** Figma, Adobe XD, Webpack, Babel

**Operating Systems:** Linux, Unix

### PROFESSIONAL EXPERIENCE

#### Software Engineer

ZFN Consulting, Silver Spring, MD

June 2020 – January 2024

- Developed web applications using React, NodeJS MongoDB and Shell Script.
- Implemented CSS library such as Bootstrap.
- Developed middleware for express servers to process API requests.
- Implemented JSON Web Token to authenticate and authorize user on express servers for internal application.
- Designed and implemented scalable solutions for data storage with the use of SQL databases such as Postgres and MySQL.
- Developed UI/UX interfaces while keeping Web Content Accessibility Guideline (WCAG) standards for internal sites.
- Developed and implemented SQL functions and procedures.
- Deployed applications on AWS S3 Bucket and EC2 instance.
- Configured NGINX to deliver dynamic/static content and to serve as a load balancer.

- Implemented automated tests to ensure code quality and reliability in accordance with best practices.
- Collaborated closely with other developers on projects that required multiple departments and people to complete tasks.
- Developed and integrated CRUD operation for relational database.
- Created Standard Operating Procedures (SOP's) and technical documents for system architecture, components, automation programs, and based on the business requirements and needs.
- Collaborated with Project Managers and Business Analyst (BA) to understand the business design, requirements and needs for the wire-framing in preparation for Federal clients.
- Developed and executed unit tests using Jest to ensure functionality and maintain high code quality.

### Software Engineer

BAE Systems, Rockville, MD

October 2019 – May 2020

- Tailored markup languages such as HTML, CSS Bootstrap, JavaScript, React, and Angular to produce user-friendly interface components for applications by analyzing user requirements.
- Utilized Storybook and Svelte to develop and document UI components, enabling consistent design and efficient collaboration across development teams.
- Pioneered proprietary COTS through evaluation of requirements from stake holders, users, and SSP Project Managers.
- Redesigned and assembled an internal repository to store classified and unclassified NAVY-SSP Documents and a pipeline for access management documentation.
- Designed, assembled, and maintained full-stack web-based applications within an Agile development environment including monthly sprints, daily standups, and monthly scrum meetings.
- Developed UI/UX interfaces while keeping Web Content Accessibility Guideline (WCAG) standards for internal sites.
- Spearheaded the development and maintained custom components and widgets for internal and external client facing proprietary software interface.
- Automate development operations such as code reviews and code deployments through developing and fostering shell script files. Integrated and developed Express REST API services utilizing ExpressJS.
- Created Standard Operating Procedures (SOP's) and technical documents for system architecture, components, automation programs, and based on the client and business requirements and needs.
- Pioneered and assembled and enhanced continuous integration and deployment using Jenkins, Gerrit, Git, and shell scripts while adhering to Change Management/Release Management Protocols.
- Authored technical documentation and SOPs for internal tools and processes.

## Web Developer

Eagle Hill Consulting, Federal GSA, Washington, DC

March 2019 – April 2019

- Collaborated with Project Managers and Business Analyst (BA) to understand the business design, requirements and needs for the wireframing in preparation for Federal webservices.
- Organized managed and deployed application repositories to AWS.
- Supported team with maintenance of production websites using Federal services, and JavaScript API, while making CIO website mobile friendly.
- Leveraged HTML, CSS Bootstrap, and JavaScript to meet the web application requirements and business needs.
- Continuously uploaded and fostered federal blogs utilizing Markup HTML and CSS.
- Utilize Adobe XD to develop wireframes for the Federal proprietary website to meet the stakeholder requirements.
- Subject Matter Expert (SME) for Chief Information Officer (CIO's) during the Analysis, Design, and development phase of the CIO.gov website.
- Consulted and supported stakeholders with capacity planning for the CIO.gov website.
- Coordinate input from other components in order to design detailed programs and websites.
- Supported less experienced colleagues in identifying, understanding, and resolving programming issues and/or concerns through guidance and fostering.
- Complied with the Web Content Accessibility Guidelines (WCAG) in the design and implementation of the CIO.gov website.

## Software Developer

Flex

April 2017 – February 2019

- Programed in HTML, CSS, JavaScript, MySQL Java and Node.JS to create appealing responsive websites.
- Utilized JavaScript libraries such as React, Bootstrap and developed user authorization system and appealing responsive applications.
- Developed and updated the Flex internal application.
- Created, modified and improved web page design and layouts.
- Ensured the site followed the brand guidelines and business needs.
- Established and maintained effective risk mitigation procedures.
- Advised internal groups on all issues relating to the web site and best next steps.
- Collaborated with design team to create and enhance HTML templates and wireframes.
- Determined technical needs of the project and ensured it coordinated with specifications and requirements.
- Optimizing web server configurations and scaling web applications
- Connected web applications to the Google Map API and Facebook API.

- Optimized server configurations, improving web application performance by 35%.

## **EDUCATION**

**UMGC** B.S in Information Systems Management – Expected Completion May 2025