Karly Stark

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Full-Stack Software Engineer with a passion for accessibility and community-focused tech, and experience in development, testing, documentation, and design. With a strong background in multimedia production, digitization, and public education, I am a creative and people-centered developer who is a skilled communicator and collaborator, and always prioritizes writing clean, well-documented, and accessible code.

TECHNICAL SKILLS

Languages - Javascript, TypeScript, HTML, CSS, Python, SQL, PostgreSQL
Libraries - React.js, React Testing Library, jQuery, Bootstrap, Tailwind CSS
Frameworks / Tools - Next.js, Node.js, Express.js, Jest, Jasmine, Django, Flask, SQLAlchemy, unittest, VSCode, Git, Github, Insomnia, AWS S3
Other - Web Accessibility (WCAG), Test-Driven Development, Debugging, Agile, Object-Oriented Programming

SOFTWARE ENGINEER EXPERIENCE

Software Engineer Volunteer   Oct 2023 – Present
Code for San Francisco, Support SFUSD   *San Francisco, CA*
- Collaborate as a member of the Engineering team, building a user-focused and accessible web and mobile application using Next.js, React, TypeScript, and Tailwind CSS that connects community-members to opportunities to donate, share resources, and volunteer with the 17 public high schools in San Francisco Unified School District.

Web Accessibility Consultant   Nov 2023
Queer Choir   *Oakland, CA*
- Performed an accessibility audit on Queer Choir's website using softwares such as WAVE, axe DevTools, and Chrome DevTools, as well as WCAG 2.1 standards and guidelines.
- Engineered solutions to all accessibility concerns and holes related to screen reader navigability, perceivability, and clarity, increasing the site's average accessibility rating from 83 to 100 percent.
- Led a workshop on digital and web accessibility for the group, so that members could maintain accessibility standards as their website and social media content shifts.

Software Engineer Intern   Sept 2023 – Oct 2023
Rithm School   *San Francisco, CA*
- Engineered a pair programming match system using Django and Javascript, which utilized each students' preference rankings and a stable roommate algorithm to create effective pairs for each project sprint, taking into account most frequent and recent pairings.
- Built and integrated a tagging feature on the Student Information System (SIS) using Django, which allowed for add/edit of tags for five different curriculum resource types, as well as site-wide search integration.
- Created a user-friendly page on the SIS front-end using Django that efficiently listed and linked a user's enrollments to respective cohort/enrollment homepages, enhancing user navigation within the system.

TECHNICAL PROJECTS

Shed   [Github](#)

- Engineered and designed a community-driven web application using React.js, Node.js, and PostgreSQL that strengthens chosen family networks by facilitating resource sharing.
- Designed and managed a robust database system to store, retrieve, and update resource listings securely and efficiently, prioritizing user privacy and data security.
- Implemented UI features to foster community building, continuously refining the application based on user feedback and accessibility considerations.

Pix.ly   Live Demo | Github
- Developed a user-friendly web-based photo gallery application facilitating seamless image uploading, downloading, and metadata viewing, utilizing React.js for the front-end and Python, Flask, and PostgreSQL for back-end. AWS3 served as the platform for secure image storage..
- Addressed accessibility concerns by creating a custom alt-text feature that guides users in crafting meaningful alt-text for their images. This user-friendly solution utilizes a modal prompt on the upload form to educate users and mandates alt-text input for each image upload.

Warbler   Live Demo | Github
- Engineered various features for a social media application using Python, Flask, and PostgreSQL.
- Implemented comprehensive authentication and authorization mechanisms, including login and logout, user registration, and user-specific views. Achieved this through the strategic implementation of middleware, form validation, and robust CSRF protection.
- Developed and integrated a "like" feature, allowing users to engage with content more interactively by liking and unliking posts.
- Conducted thorough unit and integration testing to identify and resolve potential issues and vulnerabilities, enhancing the application's stability and security.

ADDITIONAL WORK EXPERIENCE

Digitization Specialist   Oct 2020 – Apr 2022
UC Berkeley Library IT (Library Imaging Services & Media Resources Center)   Berkeley, CA
- Specialized in digitization across two departments, creating high-resolution, accessible digital image and video files of course-requested and at-risk/rare items within the UC Berkeley Library collection.
- Performed meticulous quality control reviews of digital images and videos produced by the larger teams, maintaining 100% digitization coverage of each material item.
- Troubleshot photo equipment and processing software issues across ten production stations and two production departments, communicating repair needs and timelines quickly and accurately.

Lecturer   Aug 2016 – Feb 2021
San Francisco State University School of Cinema   San Francisco, CA
- Developed and taught courses ranging in size from 10-250 students, from introductory courses to advanced senior seminars, and in both production and theory/studies subjects, consistently ranking in the top 30% of instructors in my department in end-of-semester student evaluations.
- Created two new courses for the department, both of which address marginalized voices and topics within the field. These were officially adopted and continue to be taught.

EDUCATION

Rithm School   2023
Full Stack Web Development Bootcamp
San Francisco State University   2016
MFA Cinema - Graduate Hood, College of Liberal & Creative Arts   San Francisco, CA
University of California, Berkeley   2012
BA Film Studies - High Honors, Department of Film & Media Studies   Berkeley, CA