

# 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

**Frameworks / Tools** - 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 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

### Pix.ly

[Live Demo](#) | [Github](#)

- Developed a user-friendly web-based photo gallery application facilitating seamless image uploading, downloading, and metadata viewing.
- 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.
- Utilized a technology stack encompassing React.js for the front-end and Python, Flask, and PostgreSQL for back-end. AWS3 served as the platform for secure image storage.

### 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.
- Troubleshoot 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.

### Digitization Assistant

Jun 2017 – Oct 2020

*UC Berkeley Library, Media Resources Center*

Berkeley, CA

- Led the digitization and preservation technical workflow within the Media Resources Center collection using both real-time capture and digital preservation softwares, performed detailed quality control, and wrote and implemented training documentation for our student employees.
- Achieved 35% YoY increases in digitization volume with over 2,300 materials digitized.

### Program Director

Aug 2016 – Apr 2017

*The Great Wall of Oakland*

Oakland, CA

- Directed monthly experimental film screenings and community events held in public space and projected on our 100x100 foot wall in the Uptown District. These programs successfully engaged and entertained thousands of Oakland residents who lived, worked, and moved around this busy thoroughfare, fostering a vibrant cultural scene in the district .

### Operations Workleader

Aug 2016 – May 2017

*UC Berkeley Library, Media Resources Center*

Berkeley, CA

- Led general operations at UC Berkeley's Media Resources Center, supervising 8 student employees and providing circulation support and management of communications with professors and patrons utilizing our collection. During this time we fulfilled and circulated over 1,250 material requests for classroom screenings.
- Served as manager of preservation initiatives in our collection, and instituted workflow development for our team's new large-scale digitization effort. In this first year, we digitized over 500 materials.

## 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