

# SARAH JACOBS

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# SOFTWARE ENGINEER

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## QUALIFICATIONS

**Frontend:** React, Redux, HTML5, CSS3, Pug

**Server:** Flask, Express

**Backend:** Javascript, Node.js, Python, SQL, Sequelize, SQLAlchemy, ORMs

**Other Tools/Skills:** Docker, Git, AWS, Agile

## TECHNICAL EXPERIENCE & PROJECTS

**Hyde Park Art Center, Database Management Intern** Chicago, IL

September 2011 - July 2012

- Improved efficiency of fundraising outreach by maintaining and streamlining **Quickbooks** database of donations, class registrations, and other monetary transactions, and reorganizing and standardizing paper records.

**StayAwhile** (Python, SQLAlchemy, React / Redux, HTML5, AWS and CSS3)

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

*A fullstack single-page reservation management site where users can log in as either a customer or staff and create and edit lodgings, bookings, invoices, and reviews.*

- Used **SQLAlchemy** to create a relational database of reservation paperwork generated by guest users and handled by staff users, allowing user-generated input to be combined with administrative records.
- Integrated **AWS S3** to efficiently upload photos and allow for scalability by alleviating server load.
- Developed, streamlined, and customized feature list based on industry-standard software to deliver a more intuitive and efficient user experience aligned with **user requirements**.

**BarBand** (Javascript, Express, React / Redux, HTML, CSS, Sequelize)

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

*A fullstack single-page BandCamp clone where users can build album collections and post comments.*

- Developed a dynamic search algorithm in **JavaScript** to allow browsing by category based on unique user input.
- Designed a clean and attractive UI with **raw CSS** to efficiently display data.
- Persisted user data and managed state throughout the site using **Redux** to allow dynamic page responses to specific accounts.

**ShowBoat** (AWS S3, Javascript, Python, Flask, SQLAlchemy, React / Redux, and CSS)

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

*A fullstack single-page Flickr clone where users can post and edit photos and comments, and create and edit albums and tags.*

- Created an original **JavaScript** algorithm to display time since post for a newsfeed-style home page.
- Executed conditional rendering for photos vs. albums on the user profile page with **React** components to reproduce Flickr's UI.
- Facilitated collaborative debugging sessions with the group, mediating frustrations / motivating the team (of 4) w/ technical challenges.

**KettleOverflow** (Javascript, Express, Pug, HTML, CSS, Sequelize)

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

*A fullstack single-page StackOverflow clone where users can post questions and answers and upvote their favorite posts.*

- Owned **GitHub** repo and coordinated tasks for team members as **Agile** scrum master.
- Restructured **Sequelize** database for more efficient implementation of upvote function.
- Implemented user authentication using **BCryptJS** to securely store hashed passwords, and **Express-Validator** to seamlessly handle user input errors.

## EDUCATION

[App Academy](#) - Full Stack Software Engineering

2021

- 1000-hour full-stack web development program with <3% acceptance rate. Focus on Python, JavaScript, SQL, React, Redux, TDD (Test Driven Development), OOP (Object Oriented Programming), algorithms, and coding best practices.

University of Chicago - M.A. in Humanities

2012

Bard College at Simon's Rock - B.A. (triple concentration) in Literary Studies, Cultural Studies and Studio Art

2011

## ADDITIONAL EXPERIENCE

**Head Baker, Owner/Operator** Various Locations

2013 - 2020

- Launched and operated a fully permitted baking company single-handedly, responsible for all permit applications, negotiations, bookkeeping and inventory management, **rapidly defining and adjusting processes based on business needs**.
- Accomplished business objectives including the development of recipes and attainment of daily production requirements with no direct supervisor, prioritizing time management and production quotas while producing **consistent results in a fast-paced, high-pressure environment**.

**ACD Distribution, Buyer** Madison, WI

January 2013 - June 2014

- Managed inventory across **3** warehouses in **Sage** database and made purchases for a major US distribution company, minimizing overstock and missed sales with data-informed buying decisions.
- Maintained mutually beneficial relationships with **>50 different vendors** by building rapport and ensuring requirements were satisfied.