

Alisha Lopes

SOFTWARE ENGINEER

[Portfolio](#) | [LinkedIn](#) | [Github](#)

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Skills

Python ♦ Flask ♦ JavaScript ♦ HTML5 ♦ CSS3 ♦ D3 ♦ React ♦ Redux ♦ PostgreSQL
jQuery ♦ Git ♦ Github ♦ Firebase ♦ MongoDB ♦ Webpack ♦ AWS

Projects

IBDb | [Python](#) | [HTML5](#) | [CSS3](#) | [Flask](#) | [Postgres](#) | [D3](#) |

[live site](#) | [github](#)

Responsive full stack web application allows users to browse, search, and save books to their personal library.

- Developed faceted search engine on Open Library dump dataset of 54 million records.
- Leveraged SQLAlchemy Searchable Library to recognize stop words and apply relevance ranking to search.
- Architected Postgres schemas and Flask backend to store user's books and individual book information.
- Utilized Bootstrap and Jinja templates to improve UI/UX, allowing user to easily navigate site.
- Engineered data visualizations using D3.js to allow the user to explore the relationships of books they've saved to each book's subject and authors.
- Integrated Google Books API to augment book detail pages with cover images and summaries.

Diary | [Javascript](#) | [Firebase](#) | [React](#) | [Redux](#) | [HTML5](#) | [CSS](#) |

[live site](#) | [github](#)

Single page fullstack web application powered by Firebase that allows users to create a virtual private diary.

- Engineered a secure user experience through Firebase connect authentication.
- Configured Firebase backend with authentication, enabling users to make private as well as public entries.
- Modeled all React state to enable the display of diary entry information.
- Built auth, connected, and protected components and routes using React and React Router DOM.

Color Drop | [Javascript](#) | [React](#) | [HTML5](#) | [CSS](#) |

[live site](#) | [github](#)

Fully interactive single page web application in React that allows users to play a realtime Bejeweled game clone.

- Rendered the entire grid of the Bejeweled game using custom-built, modularized React components.
- Architected data flow through React state management to update board based on user gameplay in realtime.

Experience

Dental Hygienist | [Dental Power](#) |

August 2011 - January 2018

- Educated patients by giving oral hygiene and plaque control instructions and postoperative instructions.
- Organized continuing care program for ongoing patients.

Lead Dental Hygienist | [Global Dental Relief](#) |

October 2010 - September 2014

- Implemented preventive care program within a remote clinical setting in Peru, servicing 4 local villages.
- Provided oral health instructions to patients in Spanish and English.
- Led group of ten local clinicians in patient education initiatives.
- Responsible for treating 10-15 patients per day, and coordinating care for an additional 50 patients per week.

Education

Hackbright Academy | [Immersive software engineering program for women](#) |

January 2019 - March 2019

Santa Rosa Junior College | [ASDH - Dental Hygiene](#) |

May 2010