# Briana Kirkman

860-752-8624 / bkirkman2004@gmail.com /

## Education

**California Polytechnic State University San Luis Obispo**　　　　San Luis Obispo, CA
*Computer Science Major, AI/ML concentration*　　　　*Aug. 2022 – June 2026*

## Experience

**Software Developer**　　　　October 2024
*Hack 4 Impact*　　　　*San Luis Obispo, CA*

* Developed full-stack web applications for local nonprofits, utilizing modern technologies such as React, TypeScript, Next.js, and Tailwind CSS to create scalable and maintainable solutions tailored to organizational needs.
* Collaborated in multidisciplinary teams of developers, designers, and nonprofit representatives, ensuring project alignment with the mission and goals of partner organizations.
* Created intuitive user interfaces and seamless user experiences by employing responsive design principles and frontend best practices, addressing unique challenges faced by nonprofit stakeholders.

**Girls Hackathon Participant and Winner**　　　　June 2021
*California State University San Marcos*　　　　*San Marcos, CA*

* Participated in a high-intensity, 24-hour hackathon aimed at designing innovative, tech-driven solutions for youth employment and engagement, delivering results under tight deadlines.
* Collaborated closely with a diverse team of mentors and peers, leveraging agile methodologies to brainstorm, design, and create a working prototype that addressed real-world challenges.

## Projects

**GreatReads** / *Typescript, TSX, React*　　　　December 2024

* Worked with a team to develop GreatReads, a responsive and interactive Next.js web application designed for book enthusiasts to track their reading habits.
* Integrated Google Authentication to provide secure and personalized user access, enabling users to log in with their Google accounts
* Implemented dynamic book search functionality using the Google Books API
* Designed and developed a custom bookshelf feature utilizing Supabase to store user information, enabling users to create, organize, and manage personalized collections of books

**Minimally Useful shell (MUSH)** / *C*　　　　December 2023

* Developed a simple shell (mush2) with both interactive and batch processing capabilities, incorporating essential features such as command parsing, redirection, pipes, quoted strings, and backslash escapes.
* Successfully handled redirection of standard input and output, as well as pipes to connect the output of one command to the input of another.

**Concordance** / *Python*　　　　November 2022

* Developed a python program that provides the concordance of a given text file of any length.
* Implemented customized hash table data structure to hold words and their list of line numbers.
* Implemented Horner hash function and quadratic probing for rehashing and collisions.

## Technical Skills

**Languages**: Java, Python, C/C++, JavaScript, CSS, HTML, RISC-V Assembly, SQL, React, TypeScript

**Frameworks and Libraries**: Next.js, Tailwind CSS, Pandas, Numpy, Scikit-learn

## Relevant Course Work

Data Structures, Systems Programming, Databases, Discrete Structures, Object Oriented,