

NINGXIAO CAO | SOFTWARE ENGINEER

(612) 229-7627

ningxiaocao@gmail.com

[Portfolio](#)

[LinkedIn](#)

[Github](#)

SKILLS JavaScript, Ruby, Ruby on Rails, React, Redux, PostgreSQL, SQLite, MongoDB, Mongoose, HTML5, CSS3, Sass, Webpack, Express, Git, Heroku, AWS, Figma, Sketch, Adobe XD, Adobe Creative Suites

PROJECTS

Interest-In | *(Ruby, Rails, React, Redux, JavaScript, PostgreSQL, AWS S3)*

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

Pinterest clone

- Optimized database usage and eliminated N+1 queries by observing SQL and Active Record best practices.
- Implemented custom back-end and front-end user authentication by combining Rails conventions, Active Record, customized React-Router higher order components and Bcrypt using hashing function.
- Designed dynamic modals using React component architecture and incorporated with React-Redux cycle for efficient development of pins' CRUD functionalities.
- Implemented a search function that queried the database on each keystroke for an effortless and intuitive search experience.
- Integrated Rails backend with AWS S3 for secure and scalable storage, enabling seamless upload and retrieval of files.

SCENE | *(React/Redux, MongoDB, Node.js, Express.js)*

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

A social networking platform that leverages API calls to facilitate users in exploring fresh movies and fostering new connections

- Collaborated with 3 SWEs using git workflow to design CRUD functionalities for user-auth, ratings, comments, and events.
- Initiated a responsive design approach and ensured seamless translation of user interface and user experience (UI / UX) designs into functional React components.
- Integrated third-party libraries and plugins: Passport.js, Google Map API, and TMDb API to build a feature-rich website.
- Designed a chat bot using Google Bard API to provide better customer support experience.

Where We Came From and Where We went? | *(Javascript, D3.js, US Census API)*

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

An interactive data visualization of post COVID US state-to-state migration flow

- Implemented an asynchronous/await function to load and parse data fetched with US Census API.
- Utilized D3.js to implement a dynamic chord dependency diagram that enabled users to explore and analyze migration trends over time more intuitively.
- Incorporated encapsulation and inheritance in Object Oriented Programming for a cleaner architecture and effortless scaling.

EXPERIENCE

Product Designer (Probono)

Pickle (pickle.ai)

Sep 2022 - Jan 2023

- Collaborated with product designers and software engineers for the account planning feature to ensure designs are technically feasible and implemented effectively. Product launched in November 2022 with customer satisfaction over 95%.
- Created and validated video import feature designs through sketching, frameworks, prototypes, and testing.

Landscape Designer / Project Manager

SWA-Group Landscape Designer/ Project Manager

Apr 2021 - Jan 2023

- Led 3 landscape designs of public and private developments with 4 landscape designers successfully achieving 100% time and budget completion rate. Hosted weekly design meetings with 30+ consultants and 7 consultant groups.
- Created and implemented landscaping designs based on 20+ residential and commercial client projects including 14 acre multi-million dollar commercial campus with \$6M+ landscape budget.

EDUCATION

AppAcademy - Immersive software development course with focus on full stack web development. 2023

Springboard - UX Design Career Track mentor-led UX design intensive and completion of in-depth portfolio projects. 2021-2022

University of Pennsylvania - Master of Landscape Architecture, 2013-2016

University of Minnesota - Bachelor of Environmental Design, 2009-2013