Nico Gerard Pierson

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**Technologies**

React.js, Redux, Express, JavaScript, Python, Matlab, Bash and Shell Scripting, HTML5, CSS3, SQL, postgreSQL, Sequelize, Flask, SQLAlchemy, AWS, Heroku, Docker, HPC

**Projects**

Unwined [live site](https://unwined-wine-app.herokuapp.com/) | [github](https://github.com/nicopierson/unwined)

HTML5 , JavaScript , CSS3 , React, Redux, Express, Sequelize, postgreSQL

*A wine rating App that assists users to discover and rate new wine.*

* Curated wine json data in sequelize to seed database with 5000+ wines, 3000+ wineries, and 300+ wine types
* Implemented wine search api to search by name and sort by name, rating, price and country
* Designed pagination to render 8 or fewer wines per page
* Developed query string parameters to load wines based on search or sorting option
* Integrated the search api with the wine results listed on search page in order to update the redux store and include the associated wineries

Hotpotato [live site](https://hotpotato-app.herokuapp.com/) | [github](https://github.com/nicopierson/hotpotato)

HTML5 , JavaScript , Python, CSS3 , React, Redux, Flask, SQLAlchemy, postgreSQL

*A recipe portfolio App that assists users to discover and comment on new recipes.*

* Obtained recipe json data from spoontacular API to seed the database with 100+ recipes.
* Implemented follow feature to follow your favorite chefs and a like feature to show the favorite recipes on profile page.
* Filter recipes on the feed page by categories: vegan, gluten-free, vegetarian, thai, french, and japanese recipes
* Developed React / Redux state to conditionally render recipe directions and preparations
* Coordinated with a team using the Agile Framework and github issues to divide tasks and develop the app.
* Utilized docker containers and heroku dynos to upload live app

YourCity [live site](https://yourcity-app.herokuapp.com/) | [github](https://github.com/nicopierson/yourcity)

HTML5 , JavaScript , Python, CSS3 , React, Redux, Flask, SQLAlchemy, postgreSQL

*A city matching app for travel or moving.*

* Set up AWS S3 storage and routes to upload city banner images.
* Developed app using github issues and the Agile Framework
* Integrated heroku pipeline with github actions for staging and production environments
* Planned to use google api maps and roadgoat api to include supplemental info for city location and activities

**Experience**

Entry-Level Lab Technician | May 2018 - September 2018

Molecular Express Inc.

* Reviewed and wrote company SOPs
* Reported analysis of experimental results
* Tracked and recorded inventory of biological materials based on QC standards

Research Lab Technician | September 2018 - April 2021

California Institute of Technology

Matlab, Python, Bash and Shell Scripting, HPC

* Built custom image processing pipelines for fellow pHD students and collaborators
* Improved reliability and scalability of existing image processing tools and algorithms
* Developed bash and shell scripts to parallelized image processing with the Caltech High Performance Cluster

**Education**

App Academy | April 2021 - September 2021 | Online

## Immersive 1000+ hour software development course with focus on full stack web development

University of California Santa Cruz | September 2008 - June 2012 | Santa Cruz, CA

## BS of Bioengineering