

# JEFF LI

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## EDUCATION

**University of California, Berkeley**

**Graduation** December 2022

*B.A. Data Science, Emphasis on Cognition*

### Coursework:

Algorithms, Data Structures, Computer Programs, Probability Theory, Linear Algebra, Discrete Mathematics, Differential Equations, Multivariable Calculus

## EXPERIENCE

**Laney College Mathematics Department**

August 2018 – June 2020

*Mathematics Tutor*

Oakland, CA

- Tutored over **50** students on math subjects such as Calculus, Linear Algebra, Statistics, Geometry, Algebra
- Helped manage the front desk, assisted students borrow textbooks, contact professors during office hours
- Helped professors give out homework, quizzes and exams to students, make sure students stay on track

## PROJECTS

**Full Stack Ecommerce Website** | *React, Node.js, Express.js, MongoDB, Redux*

[Github Link](#)

- Built full featured shopping cart with PayPal credit/debit payments integration using the PayPal API
- Created frontend with React functional components level state, props, hooks, React-Bootstrap UI library
- Built backend with Node.js and Express.js, MongoDB database and Mongoose Object Data Modeling library
- Created Global state management with Redux, Admin user to manage customers, products and orders
- Utilized JSON Web Tokens and custom authentication middleware for security, deployed through Heroku

**World Game Generation Engine** | *Java, Princeton StdDraw Library*

*Contact for Github access*

- Created an engine to generate pseudorandom unique worlds in a team of two.
- Implemented user interactivity, freely move the avatar with arrow keys, up to two avatars, one per user
- Built a GUI main menu for users to select different game options

**Distributed Version Control System** | *Java*

*Contact for Github access*

- Recreated version control system Git, implements proper data structure for Persistence and Serialization
- Created similar Git features init, add, commit, rm, log, find, status, branching and checkout
- Maintained history of backups and sequences of commits in a commit tree

**Weather Forecast App** | *React, Bootstrap*

[Github Link](#)

- Implemented the frontend using React Components and Bootstrap
- Integrated the OpenWeatherMap API to receive real time data stream
- Allowed users to search the current weather for more than 200,000 cities in the world

**Sudoku Solver Visualizer** | *Python, Pygame*

[Github Link](#)

- Applied the Backtracking Algorithm to solve and visualize any sudoku puzzles
- Created the GUI using Pygame, allow users to input any sudoku puzzles

## SKILLS

**Languages:** Python, Java, C, JavaScript, HTML/CSS, SQL

**Frameworks/Technologies:** React, Node.js, Bootstrap, MongoDB, Express.js, Redux, NumPy, Pandas, Git, Google Cloud, Heroku